Index to Volume 12

INDEX OF ORIGINAL ARTICLES

Acid(s). *See also specific names*
picric, in treatment of sutures to prevent tumor seeding during surgery, 1029-1042
ACKERMAN, LAUREN V., *jt. au.*, 164-182
ADAMSON, THELMA E., *jt. au.*, 135-138
ADDINK, N. W. H., and FRANK, L. J. P.: Remarks apropos of analysis of trace elements in human tissues, 544-551
Adenoacanthoma, of lung with ectopic ossifying metastases in skeletal muscles, 257-262
Adenocarcinoma(s), endocervical and endometrial, 215-221
patterns of mucins produced in, 215-221
staining to determine, 215-220
Adenoma(s), chromophobe, combined with fibrosarcoma of pituitary, 791-798
parathyroid gland, 902-911
tubular, in male pseudohermaphrodites, 568
Adrenalectomy, bilateral, for cancer of breast, 521-524
incidence of metastases in, 521-524
for cancer of male breast, 827-828, 831
for incurable cancer of breast, 58-68
criteria for selection of patients, 61-62
oophorectomy with, 64-67
operative procedures, complications, and mortality in, 62-63
remission after, 64-67
survival rates after, 64-66
for inflammatory cancer of breast, 66-67
and hypophysectomy in treatment of metastatic mammary gland carcinoma, 89-91
Adrenal gland(s), metastases to, from breast carcinoma, 524
blood supply to glands and method of spread of, 521-522
incidence of, 521-522, 524
site in organs of, 524
Adrenaline, and noradrenaline, levels in catecholamines in malignant hypertension associated with nonchromaffin paraganglioma, 880-882
AET (*S*-(2-aminoethyl)-isothiuronium bromide hydrobromide), use in localizing effect of alkylating agents and to extend their therapeutic index in treatment of neoplastic ascites, 1003-1008
Age, incidence of cancer and, 970-981
Air pollution, by aromatic polycyclic hydrocarbons and effect on tracheobronchial tree, 154-163
by aliphatic polycyclic hydrocarbons and effect on tracheobronchial tree, 154-163
method for measuring, 148-154
Alcohol, consumption, among Seventh-Day Adventists, and incidence of cancer and coronary artery disease, 1016-1028
relationship to lung cancer, 406-413
ALONZO, NICHOLAS F., *jt. au.*, 438-445
ALPER, R. G., *jt. au.*, 509-520
AMBRUS, J. L., *jt. au.*, 1003-1008
4-Amino-N^{10}-methyl pteroylglutamic acid (Methotrexate), intra-arterial, and intramuscular CF as therapy for incurable human cancer, 1248-1262
Aminopeptidase, leucine, histochemical determination of, in neoplastic and inflammatory tissues, 601-608
levels in experimental cutaneous wounds in albino rats, 601, 605, 607
in 3-day-old wounds, 605, 607
in 7-day-old wounds, 607
preparation of tissue specimens for, 601
results of determination of activity of, 601-605
in benign tumors and other diseases, 605
in malignant tumors, 602-605
Aminopeptidase—(*Contd.*)
use of L-leucyl-4-methoxy-2-naphthylamide as substrate in, 601
Amputation, palliative interscapulothoracic, in management of breast cancer, 643-647
Androblastoma(s), as tumors of specialized gonadal stroma in male patients, 944-952
Anthracosis, atypical squamous and basal cell metaplasia associated with, 499-508
Anticonvulsant drugs, and induction of lymphoma-like adenopathy, 164-182
ARIAS-STELLA, JAVIER: A topographic study of uterine epithelial atypia associated with chorionic tissue: demonstration of alteration in the endocervix, 782-790
Ascites, neoplastic, use of *S*-(2-aminoethyl)-isothiuronium bromide hydrobromide (AET) to localize effect of alkylating agents and to extend their therapeutic index in treatment of, 1003-1008
effect on nitrogen mustard toxicity in mice of, 1004
effect on therapy of tumor ascites with nitrogen mustard of, 1004-1005
median survival time of mice after, 1005, 1006, 1007
ASHLEY, DAVID J. B., *jt. au.*, 944-957
Astrocytoma(s), distinction between meningiomas and, 364-370
Atypia(s), bronchial cell, cytohistological study of, 463-472
Au^{199}. *See* Radioactive gold

BACK, N., and AMBRUS, J. L.: The use of *S*-(2-aminoethyl)-isothiuronium bromide hydrobromide (AET) to localize the effect of alkylating agents and to extend their therapeutic index in the treatment of neoplastic ascites, 1003-1008
BAKER, CARL G. (frontispiece), facing p. 643
BAKER, JOHN R., *jt. au.*, 240-245
BARBOSA, EDGARD, *jt. au.*, 620-624
BARCLAY, MARION; CALATHES, D. NACKIE; DILORENZO, JAMES C.; HELPER, ALEX, and KAUFMAN, RICHARD J.: The relation between plasma lipoproteins and breast carcinoma: effect of degrees of breast disease on plasma lipoproteins and the possible role of lipid metabolic aberrations, 1163-1170
BAUER, WALTER C., *jt. au.*, 1043-1051
Benzo[*a*]pyrene (3,4-benzopyrene), content in hot hexane-extracted and unextracted cigarette smoke condensates, 1073-1078
Benzofluoranthene(s), carcinogenicity of, 1194-1199
biological activity of, 1195-1197
chemical studies of, 1197-1198
fluorescence spectra of, 1196, 1197
identification of, 1194-1195
isolation of, from cigarette smoke condensates, 1195, 1197
ultraviolet absorption spectra of, 1194-1195
use of Swiss mice in study of, 1195
3,4-Benzpyrene, adsorption in soot and effect on tracheobronchial tree, 149-162
BERG, JOHN W.: Inflammation and prognosis in breast cancer. A search for host resistance, 714-720
jt. au., 688-692
BERKHEISER, S. W.: Bronchiolar proliferation and metaplasia associated with bronchiectasis, pulmonary infarcts, and anthracosis, 499-508
BERNSTEIN, DONALD, *jt. au.*, 1142-1157
Bile duct(s), carcinoma of, 708-709
diagnosis, preoperative and at operation, in, 710-711
distribution of metastasis from, 711
Bile duct(s)—(*Contd.*)
duration of symptoms and cause of death in untreated patients, 708-709
in surgically treated patients, 709-710
initial symptoms of, 708
laboratory findings in, 710
microscopic appearance of, 711-712
operative procedures and survival rates in, 712-713
pathological considerations in, 711
physical findings in, 710
recommended management of, 712-713
salvage rates, in, 712-713
Biliary tract. *See also specific names of organs*
carcinoma of, 1009-1015
Biopsy(ies), of rectal polyps, reliability of, 620-624
BISHOP, EVERETT L., *jt. au.*, 40-46
Bladder, ileal, radiographic evaluation of urinary tract after urinary diversion to, 1134-1141
BLAKEMORE, WILLIAM S., *jt. au.*, 938-943
Blood. *See also* Plasma *and* Serum
long term studies of chemistry of, in Paget's disease, 1226-1237
occult, in stool, examinations for, 837, 838
results of, 838
BOBLITT, DELBERT, *jt. au.*, 614-619
Bone(s), marrow, plasmacytosis of, in cancer patients, relation of levels of serum proteins and, 651-655
selective erythroid aplasia of, with coexisting benign thymoma, 47-57
neoplastic changes in, after radioactive strontium therapy, 306-322
tumors of, in rats, as late effect of radioactive strontium administration, 306-322
gross appearance of, 307, 315-317
histological appearance of, 307-315, 317-321
unusual benign and malignant chondroid tumors of, 1142-1157
description and classification of, 1142-1156
location of, 1145, 1147
age and sex incidence in, 1145
histological and cytological appearance of, 1142-1157
BOP (9-α-bromo-11-β-ketoprogesterone), effect on metastatic breast carcinoma, 509-520
BORGES, PAULO R. F., *jt. au.*, 240-245
BOWERS, C. Y., *jt. au.*, 735-737, 1270-1272
BOYES, D. A., *jt. au.*, 673-680
Branchiogenic cleft, primary carcinoma in wall of cyst of, 235-239
Braxorone (9-α-bromo-11-β-ketoprogesterone), in treatment of patients with breast carcinoma, 509-520
Brain, and skull, metastatic tumors of, 609-613
from breast cancer, 611-613
from lung cancer, 611-613
chemotherapeutic agents used for treatment of, 609
incidence of multiplicity of, 610-611
irradiation treatment of, 609, 612, 613
number of, location of, and size of, 609-612
operative treatment in, 609-613
prognosis in, 609-613
salvage and survival rates in, 609-613
Breast, cancer, advanced, prednisone therapy for, 93-107
criteria for evaluating objective improvement after, 97-98, 102
endocrine effects of, 98-99
extent of metastases and patient condition at initiation of, 94-98
incidence of remissions after, 96-97

Breast, cancer, advanced—(*Contd.*)
low dosage corticoid therapy in, 101
side effects in patients after, 100
status of ovarian function at time of, 95
survival rates in patients treated with, 95-100
therapeutic program and method, 93-95
thyroid function after, 98-99
treatment failures during, 96-98
among women in 3 Catholic religious orders, statistical study of, 1216-1217
effects of estrone and testosterone on respiration of in vitro, 958-961
analysis of response to, 960
effects in relation to age, menstrual status, clinical stage, site, and histology of tumors in, 959-960
method of measuring respiration in, 959
preparation of tissue slices in, 959
frequency of metastases to adrenal glands and ovaries from, 521-526
incidence in operative specimens of, 521-524
microscopic diagnosis of, 522-526
incurable, metastases from, distribution of, 60-62
adrenalectomy for, criteria used for selection of patients for, 60-62
operative procedures, complications, and mortality in, 60-63
previous androgen (testosterone) therapy and, 65
previous corticosteroid (prednisone) therapy and, 65
remissions after, 64-67
in relation to sites of metastases and concomitant disease, 65-66
survival rates after, 64-66
with oophorectomy for, remissions after, 64-67
results of, 65-66
with oophorectomy and hypophysectomy for, response to, 66
inflammation and prognosis in, 714-720
investigation of host resistance in, 714-720
criteria for evaluating, 714-715
patient characteristics in, 718
plasma cell component in, 716-717
round cell reaction in, 717
sinus histiocytosis in, 718
size, gross appearance, and histological appearance of tumors in, 714-717
inflammatory, adrenalectomy for, 66, 67
oophorectomy and prednisone treatment for, 103
male, ablative surgery and hormone therapy for, 820-831
age incidence in, 820, 821
case reports, 822-823
classification of, 820, 821
clinical status of patients with, 820
orchiectomy for, 821
evaluation of adrenalectomy after, 827-828, 831
evaluation of hypophysectomy after, 829, 831
histological structure of testes, and response to, 824-825, 827
histological type of primary tumor, and response to, 823-824, 826
survival and salvage rates after, 821-822, 825
treatment with corticosteroids after, 827, 830
treatment with estrogens after, 826-830
metastatic, hormonal therapy (epitestosterone) for, 1270-1272
preparation and administration of, 1270-1272
selection of patients for, 1270-1272
urinary excretions before and during, 1270-1272
virilizing effects of, 1272
19-nortestosterone propionate therapy in, 735-737

Breast, cancer, metastatic—(*Contd.*)
assay procedures in, 735
preparation and administration of, 735, 737
response to, 736, 737
selection of patients for, 735, 738
urinary excretions before and during, 736-737
virilizing reactions from, 736-737
9α-bromo-11-ketoprogesterone therapy in, 738-740
comparison with 19-nortestosterone propionate in, 738-740
dose levels in, 739
results of, 739
side effects of, 739
palliative interscapulothoracic amputation in management of, 643-647
case reports, 644-647
indications and contraindications for, 643
results of, 644-647
selection of patients for, 643
technique in, 643-644
primary operable, excision of internal mammary lymph node chain in, 14-22
5-year survival and salvage rates in, 14-22
operative procedures and X-ray therapy in, 13-19
significance of early treatment in, 688-692
changes in age distribution of patients, 689
in duration of patient delay before treatment, 690-692
in operability criteria, 690, 692
in size of primary tumors, 690-691
in survival rates, 689-692
comparison of data in 1940–1943 and 1950–1955, 688
education programs of 1940–1955, changes correlated with, 688-692
estimated survival rates in, 691-692
by level of node involvement and lesion size, 692
carcinoma, concurrent dermatomyositis in, 648-650
metastatic, 9-α-bromo-11-β-ketoprogesterone (BOP) treatment for, 509-520
case reports, 512-516
criteria of evidence of response to, 511
duration of response to, 512, 519
early experimental work with, 509-510
frequency of response to, by age groups, 511
pharmacological studies in experimental animals, 510-511
physiological effects of, 516-518
results for patients treated with, 510, 511-518
results of hypophysectomy in treatment of, 85-92
relation of plasma lipoprotein levels to, 1163-1170
classification of patient groups in, 1163-1164
effect of degree of disease on, 1163-1170
method of making determinations in, 1164
statistical analysis in, 1164
possible role of lipid metabolic aberrations in, 1163-1170
types of tumors and levels in, 1164-1169
values found in, 1164-1167
feeding, in sample of women in metropolitan area, 191-192
age and race, 191-192
demographic factors, 191-192
fertility, 191-192
socioeconomic status, 191-192
monkey, response to prolonged estrogenic stimulation of, 767-781
behavior changes after, 771-772
blood changes after, 772
dosages used in, 768, 769, 772
duration of treatment with, 768, 769, 772, 773
effects on uterus of, 772, 773
experimental procedures in, 769-771

Breast, monkey—(*Contd.*)
lack of evidence of cancerous change after, 772-773
lobular development present after, 772, 773
long term effects on mammary gland after, 771-772
pathological developments from, 773
pseudopregnancy after, 772, 773
tissue, cancerous and noncancerous, effect of estradiol-17β on α-ketoglutarate production in, 135-138
case reports, 136-137
procedure for assay of, 135
BRIHAYE, J., *jt. au.*, 527-536
BRINDLEY, CLYDE O.; MARKOFF, ELLIOTT, and SCHNEIDERMAN, MARVIN A.: Direct observation of lesion size and number as a method of following the growth of human tumors, 139-146
9α-Bromo-11-ketoprogesterone, as therapy for metastatic breast carcinoma, 738-740
Bronchiectasis, atypical squamous and basal cell metaplasia associated with, 499-508
Bronchus(i), carcinoma, human (strain A-42 transplant), 982-1002
cell appearance of, 982, 985
cytoplasmic matrix of, 984
endoplasmic reticulum of, 984, 986
Golgi apparatus of, 984, 986-987
intercytoplasmic membrane systems of, 984
mitochondria of, 983, 985-986
nuclei of, 983, 985
preparation of transplant material in, 982-983
transplantation to cortisone-treated hamster of, 982
cytological-histological correlation of benign cell atypias in, 463-472
correlation with corresponding normal cells from same region, 466-470
preparation of operative or autopsy specimens of lungs in, 464-466
of photomicrographs in, 466
possible relationship to epidermoid cancer of lung, 470-472
significance of squamous metaplasia in, 468-472
staining procedures in, 466
types of exfoliated atypical cells in, 466-470
epithelium of, in smokers and nonsmokers, histopathology of, 473-484
multicentric papillomatosis of, 117-126
case report, 117-120
involvement of larynx in, 117-126
pathological findings in, 118-120
surgical treatment of, 117-120
BROSS, IRWIN J., *jt. au.*, 688-692, 1016-1028
BROWN, ROBERT L.; BISHOP, EVERETT L., and GIRARDEAU, HERBERT S.: Tumors of the minor salivary glands, 40-46
BRUNSCHWIG, ALEXANDER, *jt. au.*, 74-84
BUCHWALD, KENNETH W., *jt. au.*, 183-186
Burchenal, Joseph H. (frontispiece), facing p. 1073
BUTCHER, HARVEY R., JR., and SPJUT, HARLAN J.: An evaluation of pelvic exenteration for advanced carcinoma of the lower colon, 681-687
n-Butyl *N*-nitroso-*N*-(2-chloroethyl)carbamate (compound XVI), summary of clinical observations of patients with far advanced cancer treated with, 460

CALATHES, D. NACKIE, *jt. au.*, 1163-1170
Calcium, levels in serum and urine from cancer patients, use of modified EDTA titrimetric procedures for determination of, 485-493
metabolism of, in metastatic cancer patients, 494-498
serum, total, levels in Paget's disease, 1229-1237
ionized, level in Paget's disease, 1229-1237
CAMANNI, F., *jt. au.*, 878-883
Cancer(s). *See also* Carcinoma(s) *and specific sites*
advanced, of breast, hormonal therapy in, 735-737, 1270-1272

Cancer(s), advanced, breast—(*Contd.*)
as cause of death, among women in 3 Catholic religious orders, statistical study of, 1207-1225
comparison with incidence of in lay female population, 1213-1219
sites of, 1213-1219
breast, excision of internal mammary lymph node chain in treatment of, 14-22
effects of estrone and testosterone therapy on respiration of, 958-961
male, ablative surgery and hormone therapy in, 820-832
significance of early treatment in, 688-692
cervix, rate, stage, and patient age in, 933-937
concurrent dermatomyositis and, possible etiological mechanism in, 648-650
coronary artery disease and, among Seventh-Day Adventists, 1016-1028
age, religion, and sex of patients with, in, 1020-1022
with myocardial infarction in, 1022-1023
background data for, 1018-1019
dietary factors in, 1019, 1020
hospital data for, 1020, 1022
method of selecting subjects in study of, 1016-1018
percentage of drinkers in, 1018, 1019
of smokers in, 1018, 1019
respiratory tract cancer in, 1023-1024
sites of cancer in, 1020
education, questionnaire and interview survey of sample population to determine effectiveness of, 1200-1206
choice of most serious illnesses in, 1202-1203, 1204
definitions of cancer in, 1203
findings in, before and after educational campaign, 1202
knowledge of symptoms of cancer in, 1203, 1204
of treatment of cancer in, 1204, 1205
location and composition of population sample in, 1201, 1202
outline of research design in, 1200-1201
psychiatric evaluation of results of, 1205-1206
reasons for delay before examination in, 1203
sources of information about cancer in, 1203-1204
3-phase procedure followed in, 1201-1202
gastric, relation of structure to long and short term survival, 1158-1162
human, incurable, intra-arterial Methotrexate and intramuscular CY therapy for, 1248-1262
incidence of in autopsy study of 257 patients 70 years of age or over, 970-981
age and sex distribution in, 970, 977-980
alimentary tract lesions in, 974-975
cardiovascular lesions in, 973-974
case reports, 971-972
double primaries in, 971-972, 978, 980
incidental benign tumors in, 972
incidental or nonlethal cancer in, 972
inflammatory lesions in, 973
operative complications in, 977
other lesions and diseases in, 975-976
statistical analysis of, 977-980
treatment for, 976-977
oral cavity, irradiation effects on malignant cells in smears of, 614-619
relation of bone marrow plasmacytosis to serum proteins in patients with, 651-655
thyroid, and psammoma bodies, incidence of, 656-662
Carcinogen(s). *See also specific names*
benzofluoranthenes, isolated from cigarette smoke condensates as, 1194-1199
higher polycyclic hydrocarbons in cigarette smoke condensates as, 1079-1086
Carcinogen(s)—(*Contd.*)
precursors of, in cigarette smoke condensates, 1073-1078
20-methylcholanthrene as, on AK mouse skin culture, 663-672
Carcinogenesis, by benzofluoranthenes isolated from cigarette smoke condensates, 1194-1199
in C3H mice, changes in cervix antedating, 389-395
in mice, with cigarette tar condensates, 731-734
Carcinoma(s). *See also* Cancer(s) *and specific sites*
advanced, of lower colon, pelvic exenteration for, 681-687
anaplastic, monocellular, with hyaline secretion, development of during generation transplants of ascitic form of teratocarcinoma LS 402 VI in mice, 584-589
yolk sac origin of, 589
biliary duct, 708-719
breast, inflammation and prognosis in, 714-720
significance in residual, nonlethal, anaplastic, infiltrating, 714-720
inflammatory, oophorectomy and adrenalectomy for, 66
metastatic, hormonal therapy of, 738-740
relation of plasma lipoprotein levels to, 1163-1170
bronchogenic, human, cell structure of, 982-1002
cells, radiation-killed or genetically incompatible, effect on small compatible tumor grafts, 697-707
cervical, intraepithelial, patterns of early invasion from, 673-680
embryonal, of testis, results of treatment by surgery and irradiation for, 323-329
significance in morphogenesis of choriocarcinoma, 573-583
frequency in Thailand of squamous cell, involving lip, tongue, and oral cavity, 694, 696
cervical, 695, 696
uterine, 695, 696
nasopharyngeal, 694, 696
functioning, of parathyroid gland, 908-910
case reports, 908-910
gallbladder, incidence and prognosis of, 1009-1015
gastric, relation of structure to long and short term survival, 1158-1162
age and sex distribution in, 1158
clinical material and methods of study in, 1158
depth of penetration in, 1158, 1161
histological grade of, 1158
maximum diameter of tumor in, 1158, 1159
morphological features studied in, 1158-1160
pattern of tumor growth in, 1158-1159
salvage and survival rates in, 1158-1162
signet ring cells, proportion of, in, 1160
size of primary tumor in, 1160
survival and lymph node metastasis in, 1158-1161
hepatocellular and cholangiocellular of liver, comparison with cholangiolocellular carcinoma of liver, 753-759
human epidermoid (H.Ep.-3), isolation of cytolipin H from, 438-445
in situ, and hyperplasia of endometrium, effects of progestins on, 1106-1122
of cervix uteri, topography methods in, 263-277
in thyroglossal duct remnants, 596-600
intraepithelial, of cervix, 10-13
uterine blocking techniques to determine, 10-12
of uterine cervix, interference microscopy in study of nuclear mass and allied phenomena in, 894-901
lung, with ectopic ossifying metastases in skeletal muscles, 257-262
mammary, transplanted, radioactive phosphorus, studies in, 966-969
metastatic, of breast, effects of ROR therapy on, 509-520
papillary, of kidney, inclusion of visceral epithelium of renal pelvis in, 1052-1057
Carcinoma(s)—(*Contd.*)
primary branchiogenic cyst, 235-239
case report, 235-238
histological evidence of, 236-237
radical neck dissection for, 235-237
recurrence of, 238-239
production of, in Swiss mice, by cigarette smoke condensates, 1073-1078
by higher polycyclic hydrocarbons in cigarette smoke condensates, 1079-1086
prostatic, levels of fibrinolytic enzymes in, 721-730
skin, primary mucoepidermoid, 286-288
squamous cell and multicentric papillomatosis of bronchi, diagnostic errors in, 117-126
invasive, of uterine cervix, interference microscopy in study of nuclear mass and allied phenomena in, 894-901
in wall of cervical cyst, 235-239
of epiglottis, 250-255
of skin, induced by cigarette tar condensates and transplanted in CAF_1 mice, 731-734
metastases to lung and node from, 732-734
of uterine cervix, survival with respect to cell type in, 384-388
X-ray therapy for and late irradiation changes, 193-196
thyroid gland, 1-5, 6-9
evaluation of routine scintiscanning of, 1-5, 6-9
preoperative diagnosis of, 1-5
postoperative management of, 6-9
Walker, radioactive phosphorus studies in, 962-965
CARROLL, BENJAMIN E., *jt. au.*, 1207-1225
CARTER, ROBERT E., and PIERCE, MILA I.: Studies on the relationship of viral infections to leukemia in mice. II. The effect of sublethal neurotropic viral infections on the development of spontaneous leukemia in AKR mice, 857-860
jt. au., 222-231
Catecholamines, high concentration of, in malignant hypertension associated with nonchromaffin paraganglioma, 878-883
CATZ, B.; PETIT, D. W.; SCHWARTZ, H.; DAVIS, F.; MCCAMMON, C., and STARR, P.: Treatment of cancer of the thyroid postoperatively with suppressive thyroid medication, radioactive iodine, and thyroid-stimulating hormone, 371-383
Cell(s). *See also* Cytology
cancer, free-floating, isolation of, from blood, by silicone flotation, 590-595
inclusion bodies in, staining to determine, 1052-1057
carcinoma, human, bronchogenic, structure of, 982-1002
mesothelial, identification of, in sediments of serous effusions, 429-437
anatomical sources of, 432, 434, 436
incidence of positive smears in, 435-437
Mowry's method in, 429-437
findings with, 432-437
preparation of, 431-432
procedure in, 431
misleading appearance of, 429
periodic acid–Schiff stain in, 432-436
toluidine blue stain in, 434-436
plasma, correlation of number of, and level of serum albumin, in cancer patients, 651-655
tumor, incompatible or admixed radiation-killed, and growth of small compatible tumor implants in mice, 697-707
Walker carcinosarcoma 256, inducing hepatic metastases in rats with, 926-928, 929-932
Cervix. *See also* Uterus
cancer of, 933-937
analysis of age specific discovery rates in a well population of, 933-937
ethnic data in, 933-934, 936
incidence in repeat population of, 935, 936

Cervix, cancer of—(*Contd.*)
methods for detection in, 934-935
rate, stage, and patient age in, 933-937
carcinoma of, intraepithelial, 10-13
advantages of transverse sectioning in, 10-13
age distribution of patients with, 11-12
anatomical distribution of, 10-12
deep gland invasion in, 676-677
distinction between microscopic patterns simulating invasion and, 674-675
between occult carcinoma with confluent invasive foci and, 678-680
maturing and degenerating changes of cells in, 675-680
period of noninvasiveness of, 678-680
presence of microinvasive foci in, 673-680
procedures performed prior to hysterectomy in patients with, 11-12
residual and nonresidual, 11-12
surface invasion in, 675-676
use of cytological smear methods in detection of, 10-11
of serial or step serial sections for, 674-675
uterine blocking techniques for determining, 10-12
patterns of early invasion from, 673-680
categories of carcinoma detected by, 673-674
use of cone biopsy in, 673
uterine, cancer, human, survival with respect to cell type in, 384-388
methods of treatment in, 386
race, age, and stage of clinical involvement in, 385-386
histological characteristics of large cell keratinizing, large cell nonkeratinizing, and small cell groups in, 385-386
carcinoma in situ, histological topography in, 263-277
amputation of cervix in, 273-274, 276
"area" and "pinpoint" invasion of, 271
criteria for choice of operative methods in, 263-264
electroconization for, 273, 276
extension within the canal, 270
within the stroma, 270-271
hysterectomy for, 275-276
results of, 268-272
serial block sectioning in, 263-268
surface distribution of, 268-270
topography methods in, 264-268
in C3H mice, changes antedating induced cancer of, 389-395
anaplastic changes in, 393-394
dysplastic changes in, 390-393, 394
epithelial infiltration in, 390, 394
method of inducing, 389-390
results of, 390-392
squamous cell carcinoma in, 390
nuclear mass and allied phenomena in normal exocervical mucosa, squamous metaplasia, atypical hyperplasia, intraepithelial carcinoma, and invasive squamous cell carcinoma of, 894-901
equations for determination of nuclear mass in, 896-897
preparation of sections in, 894-897
results of, 897-899
significant differences found in various nuclei in, 897, 898, 899-901
staining of, 894-895
use of interference microscopy in study of, 895-897
relationship of *Trichomonas vaginalis* cervicitis to cancer of, 1171-1193
ability of, to produce epithelial changes in, 1171
abnormality of parabasal cells in, 1178
atypia of, in, 1174, 1175
biopsies in, 1172
changes in endocervical cells in, 1178-1179
comparison of incidence of in situ carcinoma with and without, 1181-1182
Cervix, uterine, relationship of *Trichomonas vaginalis* cervicitis to cancer of—(*Contd.*)
cytological findings associated with, 1175
diagnosis in, 1175
dyskaryosis and, incidence of, 1183
edema of squamous epithelium in, 1173
estimation of estrogenic level in, 1179
follow-up of cytological atypias associated with, 1180
histological findings in, 1172, 1175
inflammatory changes in, 1176-1178
inflammatory phenomena affecting, in, 1174
squamous metaplasia of endocervical mucosa in, 1174
subjects studied in, 1171-1172
treatment of, 1182
vascularity of squamous epithelium in, 1173
X-ray treatment for squamous cell carcinoma of, and late irradiation changes, 193-196
CF (citrovorum factor), intramuscular, and intra-arterial Methotrexate as therapy for incurable human cancer, 1248-1262
CHAUNCEY, HOWARD H., *jt. au.*, 359-363
Chemotherapy. *See also names of specific agents*
antimetabolite-metabolite combination, using Methotrexate (4-amino-N^{10}-methyl pteroylglutamic acid) and CF (citrovorum factor) in patients with incurable cancer, 1248-1262
antitumor effects of, 1250, 1253-1260
case reports, 1253-1258
comparison with results from intravenous administration of Methotrexate and intramuscular administration of CF, 1252
doses used in, 1260
duration of therapy in, 1250, 1258
importance of route of administration in, 1259-1260
local and systemic toxicity of, 1252, 1253, 1259-1260
method of continuous intra-arterial administration of Methotrexate in, 1249-1251
of intermittent intramuscular administration of CF in, 1249-1251
types of tumor treated by, 1250
9α-bromo-11-ketoprogesterone in treatment of metastatic breast cancer, 738-740
9-α-bromo-11-β-ketoprogesterone in treatment of breast carcinoma, 509-520
epitestosterone propionate in treatment of metastatic breast cancer, 1270-1272
N-nitroso-*N*-(2-chloroethyl)carbamates, preparation of, clinical evaluation of, toxicity of, 446-462
19-nortestosterone propionate in treatment of metastatic breast cancer, 735-737
quantitative technique for measurement of cytotoxicity of antitumor agents used in, 938-943
cytotoxic metabolic inhibition (CMI) test for, 938-939
results of, on urine serum and whole blood solutions, 939-941
roller tube cytotoxicity test for, 939-941
tissue cell cultures in, 938
S-(2-aminoethyl)-isothiuronium bromide hydrobromide (AET) to localize effect of alkylating agents and to extend their therapeutic index in treatment of neoplastic ascites, 1003-1008
use of anticonvulsant drugs and induced lymphadenopathy, 164-182
CHESTER, CLARENCE L., *jt. au.*, 278-285
Cholangioles, in carcinoma of liver, 753-759
Cholesteatoma, intrasellar, and malignant hypertension, associated with skin pigmentation and hypopituitarism, 527-536
Chondroblastoma(s), malignant, of bone, 1142-1157
atypical benign, 1154-1155
Chondrosarcoma(s), mesenchymal, developing in multicentric skeletal foci, 1149-1151
Chorionepithelioma(s), results of treatment by surgery and irradiation for, 323-329
endocervix alteration in, 785-786
topographic study of uteri of patients with, 785-789
Chromaffin, or Henle, reaction, as diagnostic test for pheochromocytoma, 861-877
Cigarette(s). *See also* Smoking *and* Tobacco
smoke condensates, carcinogenicity of higher polycyclic hydrocarbons in, 1079-1086
isolation of benzofluoranthenes from, 1194-1199
precursors of carcinogenesis in, 1073-1078
tar, study of malignancy of, on CAF$_1$ mice, 731-734
development of transplanted tumor in, 731-732
method of obtaining tar in, 731
parent squamous cell tumor in, 731
survival time of mice after transplantation, 732
appearance of metastasis in, 732-734
sites of metastasis in, 732-734
Citrovorum factor (CF), intramuscular, and intra-arterial Methotrexate for incurable human cancer, 1248-1262
Coley's toxin, in treatment of sympathicoblastoma, 108, 112, 115
COLLINS, N. PERRYMAN, and EDGERTON, MILTON T.: Primary branchiogenic carcinoma, 235-239
Colon, and rectum, asymptomatic tumors of, survey procedures for detection of, 833-839
barium enema for, 834
evaluation of methods in, 837, 838
incidence of, 833
method of roentgenographic examination in, 833
photofluorograms in, 835, 838
preparation of colon for, 834
proctosigmoidoscopic examinations for, 836, 837
roentgenograms in, 835, 838
results of, 836
solution used in, 834
stool examinations for occult blood in, 837, 838
lower, advanced carcinoma of, pelvic exenteration for, 681-687
causes of death after, 682-683
criteria for selection of patients for, 681-682
emotional adjustment to, 686
incidence of metastases to lymph nodes in, 683, 684, 686-687
limited excisional therapy in, 684-687
metastases, hepatic or to periaortic lymph nodes, as contraindication for, 682, 686
pathological findings after, 683
postoperative complications and mortality in, 682
relationship of clinical findings to 683-685
of pathological findings to, 684-685
of variations in operative technique to, 684-685
survival and salvage rates after, 682-687
urinary complications after, 683
COLSKY, J., *jt. au.*, 509-520
CORIELL, LEWIS L., *jt. au.*, 938-943
Coronary artery disease, and cancer, in Seventh-Day Adventists, 1016-1028
Corticoid(s), in treatment of advanced breast cancer, 93-107
Corticosteroid(s), therapy with, for metastatic or recurrent male breast cancer, 826-832
Cortisol, administration, and 17-ketosteroid excretion in prostatic and other cancers and in benign diseases, 183-186
Cortisone, administration and 17-ketosteroid excretion in prostatic and other cancers and in benign diseases, 183-186
COX, FRANKLIN H., and HELWIG, ELSON B.: Kaposi's sarcoma, 289-298

COWDRY, E. V., *jt. au.*, 473-484
CROCKER, DIANE W., and STOUT, ARTHUR PURDY: Synovial sarcoma in children, 1123-1133
CRONINGER, ADELE B., and SUNTZEFF, VALENTINA: The malignancy of a cigarette tar carcinoma. VI. A description of 102 successive transplantations and of metastasis to lung and node, 731-734
CROSSWHITE, LOIS H., *jt. au.*, 651-655
CURRERI, ANTHONY R., *jt. au.*, 833-839
Cyst(s), cholesterol, of pituitary, in a case of malignant hypertension with associated skin pigmentation and hypopituitarism, 527-536
  lateral cervical, of branchial cleft origin, carcinoma of, 235-239
Cystadenoma, pseudomucinous, of scrotum, ovarian type, 187-190
Cystectomy, radical, for cancer of prostate, results of, 396-405
  simple total, for cancer of prostate, results of, 396-405
Cytolipin H, isolation of, from human epidermoid carcinoma, 438-445
  absorption and immunization studies of, 442
Cytology. *See also* Cell(s)
  exfoliative, of benign bronchial atypias in routine cancer screening, 453-472
    filter membrane technique in, 278-285
      fixatives and staining procedures used in, 281, 283
      preparation of material in, 278-279
      of photomicrographs in, 281-283
      results obtained in, 281-285
      study of pleural and ascitic fluids in, 278-285
      use of Millipore filter in, 279-281

DANIEL, WILLIAM W.; KOSS, LEOPOLD, G., and BRUNSCHWIG, ALEXANDER: Sarcoma botryoides of the vagina, 74-84
DAO, THOMAS L., *jt. au.*, 648-650
DAVIDOFF, LEO M., *jt. au.*, 791-798
DAVIDSON, JOHN, *jt. au.*, 108-116
DAVIS, F., *jt. au.*, 371-383
Dehydrogenase, histochemical study of 3 systems of, in human tumors, 1238-1247
  distribution of enzymatic activity in neoplastic cells, 1239-1241
    in stroma, 1241
    tissue sections in, 1238
  succinic, activity of, in human tumors, 1238-1247
Delalutin (17α-hydroxyprogesterone caproate), as treatment in hyperplasia and in situ carcinoma of endometrium, 1106-1122
Delantin (diphenylhydantoin), in anticonvulsant therapy and induced lymphadenopathy, 164-182
Dermatomyositis, and cancer, possible etiological mechanism in, 648-650
  case report, 648
  passive transfers of tumor tissue in, 649
  relation to hypersensitivity and, 649
  sensitivity studies in, 648-649
Diagnosis(es), differential, of pheochromocytoma, Henle reaction for, 861-877
Diamox (acetazolamide), in anticonvulsant therapy and induced lymphadenopathy, 170
DILORENZO, JAMES C., *jt. au.*, 1163-1170
Diphosphopyridine nucleotide (DPN) diaphorase, activity of, in human tumors, 1238-1247
  reduced (DPNH), formation in placental tissue homogenates in presence of estradiol, 127-134
2,2′-Di-*p*-nitrophenyl-5,5′-diphenyl-3,3′-(3,3′-dimethoxy-4,4′-biphenylene)-ditetrazolium chloride (nitro-BT), as chromogen electron acceptor in study of activity of dehydrogenases in human tumors, 1238-1247
DIXON, F. J., JR., *jt. au.*, 573-583, 584-589
Dysgerminoma(s), in hermaphrodites, 552-572

ECK, RICHARD V., *jt. au.*, 23-26
EDGERTON, MILTON T., *jt. au.*, 235-239
EDTA (ethylenediamine tetraacetate), use of, in titrimetric method for determining calcium levels in urine and serum from cancer patients, 485-493
Education, cancer, effect on lay public, psychiatric evaluation of, 1200-1206
EDWARDS, GEORGE A.; RUSKA, CARLA; RUSKA, HELMUT, and SKIFF, JOHN V., JR.: The micromorphology of a human bronchogenic carcinoma, 982-1002
Effusions, serous, identification of mesothelial cells in, 429-437
Encephalitis, Egypt 101 virus, relationship to leukemia in AKR mice, 857-860
Endocervix, atypia of epithelium of, and presence of chorionic tissue, topography in, 782-790
    associated with ectopic pregnancy, 783-786
  mucosa, mucins in normal and cancerous, 215-216
    histological pattern in, 216-220
    staining to determine, 215-220
Endometrium, effects of progestins on hyperplasia and carcinoma in situ of, 1106-1122
    case reports, 1107-1109
    dosage in, 1107
    morphological changes in, in menopausal and postmenopausal patients after, 1110
    selection of patients for therapy with, 1107
  mucosa, mucins in normal and cancerous, 215-221
    histological pattern in, 216-220
    staining to determine, 215-220
  uterine, topographic studies of atypias of, associated with chorionic tissue, 782-790
Enema, barium, for detection of asymptomatic tumors of rectum and colon, 833-839
Enovid (ethynyl estradiol 3-methyl ether), as treatment in hyperplasia and in situ carcinoma of endometrium, 1106-1122
Environment, pollution of air of, and incidence of lung cancer, 147-163
Enzyme(s). *See also specific names*
  DPN-dependent (lactic, malic, glutamic, β-hydroxybutyric, and ethanolic dehydrogenases), activity of, in human tumors, 1238-1247
  fibrinolytic, levels in patients with carcinoma of prostate, 721-730
    estrogen therapy in, 727-728
  histochemical study of activity of 3 dehydrogenase systems in human tumors, 1238-1247
  leucine aminopeptidase levels in neoplastic and inflammatory tissues, 601-608
  pyruvate kinase in serum of normal individuals and cancer patients, 1087-1091
Epanutin (diphenylhydantoin), in anticonvulsant therapy and induced lymphadenopathy, 164-165
Epidemiology. *See also* Statistics
  cancer and coronary artery disease among Seventh-Day Adventists, 1016-1028
  causes of death among women in 3 Catholic religious orders, with special reference to cancer, 1207-1225
  features of childhood leukemia in Buffalo, N.Y., area, 351-358
  studies of air pollution and incidence of lung cancer, 147-163
    of breast-feeding incidence in sample of metropolitan area women, 191-192
    of variables in lung cancer incidence, 406-413
Epiglottis, cancer of, 246-256
    age and sex of patients with, 249-250
    anatomical sites in, 250
    classification and staging in, 250
    clinical involvement of cervical lymph nodes in, 250, 253, 255
    end results of, 250-253, 255
    5-year survival rates, in, 252, 253, 255
    histopathology in, 250-251
    incidence of, 248-250
    mutilation in, 253
    radiation therapy followed by surgery for, 252-255

Epiglottis, cancer of—(*Contd.*)
    total laryngectomy with bilateral neck dissection in, 253-255
Epitestosterone propionate, in treatment of metastatic breast cancer, 1270-1272
Epithelium, bronchial and tracheal, of smokers and nonsmokers, histopathology of, 473-484
    classification of smoking groups in study of, 473
    with and without pneumonia, 474
    length of cilia in, 475, 477
    percentage of goblet cells in, 477
    preparation of autopsy material in, 473
    thickness in, 474-475
  lung, changes in, associated with bronchiectasis, pulmonary infarcts, and anthracosis, 499-508
    atypical cells and mitotic figures in, 479
    precancerous lesions in, 480, 483
    squamous metaplasia and basal cell hyperplasia in, 478-481
  squamous, changes in, produced by *Trichomonas vaginalis* cervicitis, 1171-1193
  uterine, atypia of, associated with chorionic tissue, topography in, 782-790
    cervix, study of normal and abnormal squamous cells from, by interference miscroscopy, 894-901
  visceral, of renal pelvis, inclusion of in papillary carcinoma of kidney and its metastases, 1052-1057
EPSTEIN, S. S., *jt. au.*, 246-256
Estradiol, effect on production of DPNH and α-ketoglutaric acid in human placental tissue homogenates, 127-134
    cofactors and inhibitors in, 131-132
    effect of pH, buffer, temperature, and metals on, 130-134
    versene as substrate in, 130-131
  17β, effect on production of α-ketoglutarate in noncancerous and cancerous human breast tissue, 135-138
Estrogen(s), mammary response in rhesus monkey to prolonged stimulation with, 767-781
  therapy with, for metastatic or recurrent male breast cancer, 826-832
Estrone, effects of, on human mammary cancer in vitro, 958-961
17α-Ethynyl-17-hydroxy-5(10)-estren-3-one and ethynyl estradiol 3-methyl ether (Enovid) as treatment in hyperplasia and in situ carcinoma of endometrium, 1106-1122
Exenteration, pelvic, for advanced carcinoma of lower colon, 681-687
    for cancer of prostate, results of, 396-405

FALK, HANS L., *jt. au.*, 147-163
Fallopian tube(s), cancer of, among women in 3 Catholic religious orders, statistical study of, 1218
FARROW, J. H., *jt. au.*, 58-68
Fibrinogen(s), levels in patients with prostatic cancer, 721-730
Fibroma(s), atypical chondromyxoid, of bone, 1156-1157
Fibrosarcoma(s), nonmetastasizing, combined with chromophobe tumor of pituitary, 791-798
FIDLER, H. K., and BOYES, D. A.: Patterns of early invasion from intraepithelial carcinoma of the cervix, 673-680
FINKBEINER, J. A., *jt. au.*, 58-68
FISHER, BERNARD, and FISHER, EDWIN R.: Experimental studies of factors influencing hepatic metastases. II. Effect of partial hepatectomy, 929-932
  jt. au., 926-928
FISHER, EDWIN R., and FISHER, BERNARD: Experimental studies of factors influencing hepatic metastases. I. The effect of number of tumor cells injected and time of growth, 926-928
GINGRICH, R. M.; GRUHN, JOHN, and LAING, P.: Ossifying metastatic carcinoma. Report of a case with comments relative to histogenesis of

ectopic ossification, 257-262
jt. au., 929-932
FISHMAN, WILLIAM H.; BAKER, JOHN R., and BORGES, PAULO R. F.: Localization of β-glucuronidase in some human tumors, 240-245
Flotation, quantitative method, using silicone for isolating free-floating cancer cells from blood, 590-595
appearance of cells in, 593-595
materials and solutions for, 591
methods of controlling accuracy of, 593-595
procedure in, 591-592
results of, 595
silicone blending in, 590-591
staining and mounting in, 592-593
theory of, 590
Fluid(s), pleural and ascitic, use of filter membrane technique in exfoliative cytology of, 278-285
Fluorescence, in differential staining of tissues, 741-752
various serum proteins in, 741-752
spectra, of benzofluoranthenes, in study of carcinogenicity, 1196, 1198
of higher polyclic hydrocarbons, in study of carcinogenicity, 1082, 1083
5-Fluoro-2′-deoxyuridine (FUDR), quantitative technique for measuring cytotoxicity of, 938-943
FOOT, N[ATHAN] CHANDLER: The identification of mesothelial cells in sediments of serous effusions, 429-437
(1881–1958), Frontispiece, facing p. 429
FORAKER, ALVAN G., and REAGAN, JAMES W.: Nuclear mass and allied phenomena in normal exocervical mucosa, squamous metaplasia, atypical hyperplasia, intraepithelial carcinoma, and invasive squamous cell carcinoma of the uterine cervix, 894-901
FOX, FREDERICK; DAVIDSON, JOHN, and THOMAS, LOUIS B.: Maturation of sympathicoblastoma into ganglioneuroma. Report of 2 patients with 20- and 46-year survivals respectively, 108-116
FRACCHIA, A. A.; HOLLER, A. I.; FARROW, J. H.; TREVES, N. E.; RANDALL, H. T.; FINKBEINER, J. A., and WHITMORE, W. F., JR.: Results of bilateral adrenalectomy in the management of incurable breast cancer. Report of 155 cases, 58-68
FRANK, L. J. P., *jt. au.*, 544-551
FRIEDMAN, NATHAN B., *jt. au.*, 1263-1269
FUDR (5-fluoro-2′-deoxyuridine), quantitative technique for measuring cytotoxicity of, 938-943

GABY, SAMUEL D., *jt. au.*, 446-462
GALLAGHER, H. STEPHEN; MILLER, GEORGE V., and GRAMPA, GIUSEPPE: Primary mucoepidermoid carcinoma of the skin. Report of a case, 286-288
Gallbladder, carcinoma of, 1009-1015
age and sex incidence in, 1009-1010
cause of death and course of untreated patients with, 1012, 1013
cholecystectomy as preventive measure in, 1014-1015
criteria for unresectability of, 1014
etiological and pathological considerations in, 1011-1012
laboratory findings in, 1010-1011
malignant tumors associated with, 1012, 1013
resectable and nonresectable tumors in, 1009-1015
salvage and survival rates in, 1012-1013
symptoms and duration of symptoms in, 1009-1010, 1011
Gallstones, in association with carcinoma of gallbladder, 1009, 1011, 1015
Ganglioneuroma, development from sympathicoblastoma, 108-115
Gasoline, ozonized, as air pollutant, effect on tracheobronchial tree, 143-167
Gastrectomy, total or partial, for gastric carcinoma, survival after, 1158
Genitals. *See also specific names of organs*
anomalies of, and development of dysgenetic gonadal tumors, 552-572
Genitals—(*Contd.*)
cancer of, among women in 3 Catholic religious orders, 1217
GESCHICKTER, CHARLES F., and HARTMAN, CARL G.: Mammary response to prolonged estrogenic stimulation in the monkey, 767-781
GINGRICH, R. M., *jt. au.*, 257-262
GIRARDEAU, HERBERT S., *jt. au.*, 40-46
GLENN, FRANK, *jt. au.*, 1009-1015
β-Glucuronidase, localization in human tumor homogenates, 240-245
pathological diagnosis in, 240-243
stroma of cancerous tissue with, 245
activity in non-neoplastic leukocytes, fibroblasts, and fibrocytes, 245
GOLDENBERG, IRA S., and HAYES, MARK A.: Hormonal therapy of metastatic female breast carcinoma. I. 9α-bromo-11-ketoprogesterone, 738-740
Gonad(s), dysgenetic, in intersexes, 552-572
hormonal and nonhormonal tumors of, 568-570
nomenclature for, 569-570
tumors of specialized stroma of, in male patients, 944-957
age and race incidence in, 944
endocrine aspects of, 950-954
epithelial cells in, 945-946
histogenesis of, 949-950
hormone assays in, 944, 945
initial symptoms and duration of symptoms in, 944
nomenclature of, 954
orchiectomy and postoperative radiation in treatment of, 944
survival and salvage rates in, 944
Gonadoma(s), dysgenetic, and other gonadal neoplasms, in intersexes, 552-572
case reports, 552-567
classification of, 569-570
possible endocrine activity of, 568
reported incidence of, 552, 567-568
GORMAN, JOHN G., *jt. au.*, 537-543
GRACE, JAMES T., JR., and DAO, THOMAS L.: Dermatomyositis in cancer: a possible etiological mechanism, 648-650
GRAF, LISELOTTE, *jt. au.*, 438-445
GRAMPA, GIUSEPPE, *jt. au.*, 286-288
Granuloma(s), inflammatory, radioactive phosphorus studies in, 966-969
Granulosa-theca cell tumor of testis, as tumor of specialized gonadal stroma in male patients, 944-952
GREENSTEIN, JESSE P. (1902–1959), Frontispiece, facing p. 643
GROESBECK, H. P.: Evaluation of routine scintiscanning of nontoxic thyroid nodules. I. The preoperative diagnosis of thyroid carcinoma, 1-5
Evaluation of routine scintiscanning of nontoxic thyroid nodules. II. The postoperative management of thyroid carcinoma, 6-9
GROSSI, CARLO, *jt. au.*, 69-73
GRUHN, JOHN, *jt. au.*, 257-262
GRUNMEIER, PAUL W., *jt. au.*, 938-943

Hamster(s), cortisone-treated, study of cell structure of human bronchogenic carcinoma grown in, 982-1002
HARTMAN, CARL G., *jt. au.*, 767-781
HAVERBACK, CHESTER Z., and SMITH, ROBERT R.: Transplantation of tumor by suture thread and its prevention. An experimental study, 1029-1042
HAYES, MARK A., *jt. au.*, 738-740
HELLWIG, C. ALEXANDER, and BARBOSA, EDGARD: How reliable is biopsy of rectal polyps? A clinical and morphological study of 107 cases, 620-624
HELPER, ALEX, *jt. au.*, 1163-1170
HELWIG, ELSON B., *jt. au.*, 289-298
Hematopoiesis, leukocyte alkaline phosphatase levels in various forms of, 760-766
comparison of cytochemical and biochemical methods to determine, 760-766
HENNEAUX, J., *jt. au.*, 527-536
H.Ep.-3 tissue, isolation of cytolipin H from, 433-445
Hepatectomy, partial, effect of an incidence of hepatic metastases in Sprague-Dawley rats, 929-930
HERLITZKA, ALFRED J., *jt. au.*, 833-839
Hermaphroditism, male, with ovarian type pseudomucinous cystadenoma in scrotum, 187, 189-190
HERROLD, RUSSELL D., *jt. au.*, 359-363
Hexane, biological and chemical findings in cigarette smoke condensates extracted by, 1073-1078
Hibernoma, in children, 915
HIEBERT, CLEMENT A.: The carcinogenic action of methylcholanthrene on mouse skin in organ culture, 663-672
HIGGINSON, JOHN, *jt. au.*, 753-759
HN2 (nitrogen mustard), in treatment of tumor ascites in mice, effect of ART on toxicity level of, 1003-1008
quantitative technique for measuring cytotoxicity of, 938-943
Hodgkin's disease, in children, 1043-1051
age, sex, and race incidence in, 1043
clinical staging in, 1043-1044
definition of stages in, 1044
histopathological features of, 1044-1045
irradiation therapy for, 1047-1051
dosage used in, 1048-1050, 1051
surgical procedures for, 1047-1048
survival and salvage rates in, 1044-1047, 1051
in primary malignant lymphomas, of lung, 806-819
HOERMAN, KIRK C.; CHAUNCEY, HOWARD H., and HERROLD, RUSSELL D., with the assistance of VEACH, WILLIAM L., and SHELAIR, IRVING L.: Parotid saliva acid phosphatase in prostatic cancer, 359-363
HØST, HERMAN, and STOKKE, TORVALD: The treatment of malignant testicular tumors at the Norwegian Radium Hospital, 323-329
HOFFMANN, DIETRICH, *jt. au.*, 1079-1086, 1194-1199
HOLLANDER, VINCENT P.; SMITH, DAVID E., and ADAMSON, THELMA E.: Studies on estrogen-sensitive transhydrogenase. The effect of estradiol-17β on α-ketoglutarate production in noncancerous and cancerous human breast tissue, 135-138
jt. au., 127-134
HOLLER, ARTHUR I., and LUCAS, JOHN C., JR.: Palliative interscapulothoracic amputation in the management of the breast cancer patient, 643-647
jt. au., 58-68
Hormone(s). *See also specific names*
adrenal, therapy with, and effect on 17-ketosteroid excretion in prostatic and other cancers and in benign diseases, 183-186
19-nortestosterone propionate, therapy for cancer of breast, effect on clinical course and hormonal excretion, 735-737
replacement therapy after hypophysectomy for metastatic breast cancer, 85, 89-90
therapy for metastatic or recurrent male breast cancer, 826-832
HORN, DANIEL, and SOLOMON, ERWIN S.: The frequency of breast feeding in a representative sample of women in a metropolitan area, 191-192
Host resistance, study of, in breast cancer, 714-720
significance of inflammatory reaction in, 715-720
response, to growth of small compatible tumor implants in presence of admixed radiation-killed or incompatible tumor cells, 697-707
HUGHES, P. E., *jt. au.*, 741-752
HUTTER, ROBERT V. P.: Phycomycetous infection (mucormycosis) in cancer patients: a complication of therapy, 330-350
jt. au., 47-57
HYAMS, VINCENT J., *jt. au.*, 791-798
Hydantoin, derivatives and analogues in therapy of convulsive disorders, and induced lymphoma-like adenopathy, 164-182
Hydrocarbon(s), aliphatic polycyclic, effect on tracheobronchial tree, 154-163
aromatic polycyclic, effect on tracheobronchial tree, 154-163
polycyclic, carcinogenicity of, 1194-1199
benzofluoranthenes in the study of, 1194-1199
role of precursors of, 1073-1078
higher, carcinogenicity of, in cigarette smoke condensates, 1079-1086

Hydronephrosis, postoperative, use of excretory and retrograde urograms in evaluation of, 1134-1141
17α-Hydroxyprogesterone caproate (Delalutin), as treatment in hyperplasia and in situ carcinoma of endometrium, 1106-1122
Hyperplasia, and in situ carcinoma, of endometrium, effects of progestins on, 1106-1122
atypical, of uterine cervix, interference microscopy in study of nuclear mass and allied phenomena in, 894-901
Hypertension, malignant, and intrasellar cholesteatoma, associated with hypopituitarism and skin pigmentation, 527-536
case report, 527-532
associated with nonchromaffin paraganglioma, 878-883
Hypoglycemia, association of mesotheliomas and extraovarian thecomas with, 1263-1269
Hypophysectomy, for incurable breast cancer, after oophorectomy and adrenalectomy, response to, 66
for male breast cancer, 829, 831
for metastatic breast cancer, 85-92
adrenalectomy or oophorectomy-adrenalectomy with, 89-91
criteria of regression and arrest after, 87
duration of remission and survival after, 87
hormonal replacement therapy after, 85, 89
location of metastases and response to, 87-88
operative mortality from, 85-86
postoperative complications of, 86
prior menopausal status, and results of, 87-88
prior operative treatment, and response to, 88
salvage and survival rates in, 87-88, 105
Hypopituitarism, and skin pigmentation, with malignant hypertension and intrasellar cholesteatoma, 527-536

I^{131}. *See* Radioactive iodine
IDE, G.; SUNTZEFF, VALENTINA, and COWDRY, E. V.: A comparison of the histopathology of tracheal and bronchial epithelium of smokers and nonsmokers, 473-484
Implants, growth of genetically compatible and incompatible or radiation-killed, 697-707
effect of dissociated liver tissue on, 700
of irreversibly damaged tumor cells on, 698-700
Inclusion body(ies), in cancer cells from papillary carcinoma of kidney and its metastases, 1052-1057
Infarcts, pulmonary, atypical squamous and basal cell metaplasia associated with, 499-508
Inflammation, plasma cell, and prognosis in breast cancer, 714-720
Irradiation, effects of, on malignant cells in smears of oral cavity cancer, 614-619
late changes from, 193-196
correlation between clinical data and cytological findings in, 195-196
cytological study of cervical and vaginal smears for, 193-196
in women previously treated for cancer of uterine cervix, 193-196
microscopic appearance of smears in, 193-196
"net" formation in, 194-196
Isotope(s). *See individual names*

JACOBS, EDWIN M.; HUTTER, ROBERT V. P.; POOL, JOHN L., and LEY, ALLYN B.: Benign thymoma and selective erythroid aplasia of the bone marrow, 47-57
Jaundice, as symptom in bile duct cancer, 708
as symptom of carcinoma of gallbladder, 1009-1010
JONAS, HERBERT, and HOLLANDER, VINCENT: The assay of estradiol-sensitive transhydrogenase, 127-134
JONES, R., JR., *et al.*, 509-520
JONSSON, U.; COLSKY, J.; LESSNER, H. E.; ROATH, O. S.; ALPER, R. G., and JONES, R., JR.: Clinical and pharmacological observations of the effects of 9-α-bromo-11-β-ketoprogesterone in patients with carcinoma of the breast, 509-520
JUDE, JAMES R.; LUSTED, LEE B., and SMITH, ROBERT R.: Radiographic evaluation of the urinary tract following urinary diversion to an ileal bladder, 1134-1141
JUNIPER, KERRISON, JR., and CHESTER, CLARENCE L.: A filter membrane technique for cytological study of exfoliated cells in body fluids, 278-285

KAHN, DAVID S., *et al.*, 306-322
KARHAUSEN, L. R.; TAGNON, R. F.; BRIHAYE, J.; ZYLBERSZAC, S., and HENNEAUX, J.: Hypopituitarism and skin pigmentation associated with malignant hypertension and an intrasellar cholesteatoma, 527-536
KAUFFMAN, SHIRLEY L., and STOUT, ARTHUR PURDY: Lipoblastic tumors of children, 912-925
KAUFMAN, RICHARD J., *et al.*, 1163-1170
KEELING, J. HAROLD, and OCHSNER, ALTON: Carcinoma in thyroglossal duct remnants. Review of literature and report of 2 cases, 596-600
KELLERT, ELLIS: An ovarian type pseudomucinous cystadenoma in the scrotum, 187-190
KEPES, JOHN, and KERNOHAN, JAMES W.: Meningiomas: problems of histological differential diagnosis, 364-370
KERNOHAN, JAMES W., *et al.*, 364-370
α-Ketoglutaric acid (KG), production in cancerous and noncancerous human breast tissue in presence of estradiol-17β, 135-138
in placental tissue homogenates in presence of estradiol, 127-134
colorimetric method for determining, 127-128
17-Ketosteroid(s) (17-KS), effect of cortisone and cortisol on excretion of, in patients with prostatic and other cancers, and in patients with benign diseases, 183-186
method for determining, 183-184
use as a cancer diagnostic test, 185-186
Kidney(s), papillary carcinoma of, and metastases from, inclusion of visceral epithelium of renal pelvis in, 1052-1057
case report, 1052-1056
histological characteristics of, 1052-1053, 1056
staining in, 1052-1053, 1056
KING, E. S. J.; HUGHES, P. E., and LOUIS, C. J.: Differential fluorescence staining of normal and neoplastic tissues: use of various serum proteins, 741-752
KINSELLA, DALTON L., JR.: Bronchial cell atypias: a report of a preliminary study correlating cytology with histology, 463-472
KISTNER, ROBERT W.: Histological effects of progestins on hyperplasia and carcinoma in situ of the endometrium, 1106-1122
KLEIN, EVA, *et al.*, 697-707
KLEINFELD, GEORGE: A clinical and pathological study of 63 functioning parathyroid tumors, 902-911
KLEMPERER, PAUL (frontispiece), facing p. 215
KLINCK, G. H., and WINSHIP, THEODORE: Psammoma bodies and thyroid cancer, 656-662
KOSS, LEOPOLD G., and WOLINSKA, WANDA H.: *Trichomonas vaginalis* cervicitis and its relationship to cervical cancer. A histocytological study, 1171-1193
et al., 74-84
KOTIN, PAUL, and FALK, HANS L.: The role and action of environmental agents in the pathogenesis of lung cancer. I. Air pollutants, 147-163
KRAMER, STANLEY P.; SELIGMAN, ARNOLD M.; GABY, SAMUEL D.; SOLOMON, ROBERT D.; MILLER, JACOB I.; WILLIAMSON, CHARLES, and WITTEN, BENJAMIN: The nature of the toxicity of some *N*-nitroso-*N*-(2-chloroethyl) carbamates in animals and man, 446-462

Lactic dehydrogenase (LD), alterations in activity of, in diagnosis of malignant tumors, 27-39
in body fluids, 27-39
in plasma, 27-39
levels in mice with transplantable tumors, 27-30
in patients with and without cancer, 31-36
in serum, 27-39
levels in mice with transplantable tumors, 27-30
with various diseases, 37-38
LAING, P., *et al.*, 257-262
LAM, JORGEN, *et al.*, 1073-1078
LAMPE, ISADORE, *et al.*, 614-619
LAPOINTE, J. L.; WITTKOWER, E. D., and LOUGHEED, M. N.: Psychiatric evaluation of the effect of cancer education on the lay public, 1200-1206
Laryngectomy, total, for cancer of epiglottis, 253-255
mutilation in, 253
Larynx, and bronchi, papillomatosis of, 117-126
differentiation from squamous cell carcinoma, 117-126
hemoptysis as most common symptom of, 117-119, 123, 125
mechanism of "spread" of, 125
extrinsic, cancer of, 246-256
LATOURETTE, HOWARD, *et al.*, 614-619
LATTES, RAFFAELE, *et al.*, 117-126
LEE, STANLEY L., *et al.*, 760-766
LEMON, FRANK R., *et al.*, 1016-1028
LEMON, HENRY M.: Prednisone therapy of advanced mammary cancer, 93-107
LESSNER, H. E., *et al.*, 509-520
Leukemia, acute blastic, chronic myelogenous, and chronic lymphocytic, leukocyte alkaline phosphatase levels in, 760-766
comparison of cytochemical and biochemical methods to determine, 760-766
complicated by mucormycosis infection, 339-343, 345-347
human, chronic myelogenous and chronic myeloid, optical density measurements of leukemic cells in, 232-234
method in, 232
values obtained in, 233
in children, epidemiology of, 351-358
age by economic halves in, 353-354
exposure to ionizing radiation and development of, 357
incidence in greater Buffalo, N.Y., area, 352-353
infectious etiology of, 355-357
population by economic halves in, 353
temporal-spatial proximity in, 353-355
L4946, transmissible, in AK mice, effects of Egypt 101 virus on, 222-231
method of infecting, 225-228
proof of viremia after, 225-227
results of lethal and sublethal infections, 225-228
staining procedures used, 225-228
survival time after, 225-228, 230
spontaneous, in AKR mice, effect of sublethal neurotropic viral infections on development of, 857-860
age of mice developing, 858
comparison with LCM virus, 858-859
dosage in, 858
Egypt 101 encephalitis virus as source of infection in, 857
incidence of, in, 858-859
method of infecting, 857-858
proof of viremia in, 858
survival after, 858
Leukocytosis, leukemic, in mice, effect of sublethal and lethal infections with Egypt 101 virus on, 228-230
LEY, ALLYN B., *et al.*, 47-57
Leydigoma(s), results of treatment by surgery and irradiation for, 323-329
LICHTENSTEIN, LOUIS, and BERNSTEIN, DONALD: Unusual benign and malig-

nant chondroid tumors of bone. A survey of some mesenchymal cartilage tumors and malignant chondroblastic tumors, including a few multicentric ones, as well as many atypical benign chondroblastomas and chondromyxoid fibromas, 1142-1157
Lipid(s), organ and tumor, immunochemical studies of, 438-445
chemical properties of, 440-441
immunochemical properties of, 441-442
physical properties of, 440
isolation of cytolipin H from, 438-440
method of isolation of, 438-440
Lipoblastomatosis, in children, 915
Lipoma(s), in children, 912-915
Lipoprotein(s), plasma, levels of, in breast carcinoma, 1163-1170
Liposarcoma(s), in children, 916-923
Liver, carcinoma of, cholangiolocellular, 753-759
classification of, 757-759
criteria for diagnosis of, 753
gross morphology of, 754-755
histopathological features of, 755-757
incidence of, 754
origin of, 753-757
sex ratio and patient age in, 754
sites of metastases from, 755
metastases to, factors influencing in studies with rats, 926-928, 929-932
LLOYD, J. WILLIAM, *jt. au.*, 1207-1225
Lobectomy, for papillomatosis of bronchi, 117-126
LOMBARD, HERBERT L., and SNEGIREFF, LEONID S.: An epidemiological study of lung cancer, 406-413
LOUGHEED, M. N., *jt. au.*, 1200-1206
LOUIS, C. J., *jt. au.*, 741-752
LUCAS, JOHN C., JR., *jt. au.*, 643-647
LUMB, GEORGE, and MACKENZIE, D. H.: The incidence of metastases in adrenal glands and ovaries removed for carcinoma of the breast, 521-526
Lung(s), cancer, epidermoid, possible relationship of squamous metaplasia to, 468-472
human, epidemiology of, 406-413
types of control and patients in study of, 406-407
consumption of alcohol in, 406, 411-412
frequent and/or chronic respiratory conditions in, 406, 411
heredity in, 412
"irritation" in, 412
lifetime smoking habits in, 406-411
outdoor occupation in, 406, 412
variables, and relationship to, 407-412
role of air pollutants in pathogenesis of, 147-163
biological findings in, 150-159
chemical findings in, 149
physical findings in, 149-150
tumors of, experimental induction of, and changes in respiratory epithelium of C57BL and strain A mice following exposure to air pollutants, 154-159
carcinoma, with ectopic ossifying metastases, in skeletal muscles, 257-262
alkaline phosphatase content in primary tumor and in metastases of, 259-261
autopsy findings in, 257-259
case report, 257-259
chronic disorders of, bronchiolar proliferation, metaplasia, and, 499-503
bronchiectasis, pulmonary infarcts, or anthracosis, and changes in, 499-505
incidence of, 500-505
significance of, 507-508
types of cell changes in, 499-505
human, soot in, disappearance of carcinogens from, 148-154, 161
3,4-benzpyrene in and deposition on tracheobronchial tree, 148-150, 152-154, 159-160
relation of particle size, deposition site, and time of passage within tracheobronchial tree, 148-154
lymphomas, primary malignant, 806-819
Lung(s), lymphomas, primary malignant —(*Contd.*)
case reports, 807-815
clinical course and prognosis in, 818
Hodgkin's disease as, 806-819
localization of, 806, 819
lymphocytic tumor as, 806-819
pathological features of, 815-817
physical findings in, 815
reticulum cell sarcoma as, 806-819
roentgenography in, 817-818
salvage and survival rates in, 818-819
surgical excision and irradiation for, 807-815, 818-819
symptoms in, 815
metastases to, in CDBA mice from melanoma S91 Cloudman, 23-26
effect of irradiation on, 23-24
from squamous cell carcinoma in skin of mice from cigarette tar, 732-734
LUPTON, CHARLES H., JR., *jt. au.*, 1052-1057
LUSTED, LEE B., *jt. au.*, 1134-1141
Lymph node(s), cervical, metastases to, from cancer of epiglottis, 250, 253, 255
enlargement of, after anticonvulsant drug therapy, 164-182
metastasis to, from squamous cell carcinoma in skin of mice induced by cigarette tar, 732-734
Lymphadenopathy, induced by anticonvulsant drugs and mimicking malignant lymphomas, 164-182
case reports, 169-175, 178-179
cervical nodes most frequently involved in, 165-167, 179
clinical and pathological features of, 165-167, 179-180
differentiation from malignant lymphomas, 164, 179-180
malignant, differentiation from drug-induced lymphadenopathy, 164, 179-180
primary of lung, 806-819
Lymphosarcoma(s), complicated by mucormycosis infection, 343-345
of multicentric or secondary foci, in different sites, 625-627
case report, 625-626
development of 5 seemingly independent foci over 8-year period, 625-627
involvement of tonsils in, 625-627
long term palliation of each lesion in, 625-627
treatment of, with radiation, operation, and chemotherapy, 625-627

MACKENZIE, ALEXANDER R., *jt. au.*, 396-405
MACKENZIE, D. H., *jt. au.*, 521-526
MARCUSE, PETER M.: Malignant presacral teratoma in an adult, 889-893
MARKOFF, ELLIOTT, *jt. au.*, 139-146
MASSON, PIERRE (1880–1959), Frontispiece, facing p. 857
McALLISTER, ROBERT M.; GRUNMEIER, PAUL W.; CORIELL, LEWIS L., and BLAKEMORE, WILLIAM S.: A quantitative technique for the measurement of in vitro cytotoxicity of 5-fluoro-2'-deoxyuridine (FUDR), nitrogen mustard (HN2), and other antitumor agents, 938-943
McCAMMON, C., *jt. au.*, 371-383
McGAVRAN, MALCOLM H., *jt. au.*, 1043-1051
McMANUS, J. F. A., *jt. au.*, 1052-1057
McNEER, GORDON, *jt. au.*, 1158-1162
Measurement, optical density, in white blood cell extracts from human leukemia, 232-234
MEISLIN, AARON G.; LEE, STANLEY L., and WASSERMAN, LOUIS R., with the technical assistance of YAROSH, MARIE: Leukocyte alkaline phosphatase activity in hematopoietic disorders. A correlative study by biochemical and cytochemical techniques, 760-766
Melanocyte-stimulating hormone (MSH), effect of, on skin pigmentation in case of hypopituitarism with malignant hypertension and cholesteatoma, 534-535
Melanoma(s), S91 Cloudman in CDBA mice, effect of external irradiation on, 23-26
MELICOW, MEYER M., and USON, AURELIO C.: Dysgenetic gonadomas and other gonadal neoplasms in intersexes. Report of 5 cases and review of the literature, 552-572
Meningioma(s), histological differential diagnosis of, 364-370
case reports, 364-365, 368
distinction between astrocytomas and, 368, 370
between carcinomas and, 364-365
between neurilemomas and, 358-370
problem of dural and cranial metastases and, 364
Mesantoin (methoin) in anticonvulsant therapy, and induced lymphadenopathy, 164-182
Mesonephroma ovarii, morphogenesis of, study of endodermal sinus tumors of ovary and testis, 1092-1105
Mesothelioma(s), diffuse, of pleura, prolonged survival after Au^{198} therapy for, 799-805
mesenchymomatous, 884-888
autopsy findings in, 884-885
case report, 884-886
laboratory and roentgenographic findings in, 884
microscopy of, 885-886
physical examination in, 884
with hypoglycemia and nephrotic syndromes, 1263-1269
association with arthralgia, clubbing, and bone pain, 1267-1268
case reports, 1263-1265
histological picture in, 1264, 1265-1267
similarity to extraovarian thecomas, 1263-1269
Metabolism, calcium, in metastatic cancer patients, simplified method for determining, 494-498
lipid, aberrations of, possible role of in relation to plasma lipoprotein levels in breast carcinoma, 1163-1170
Metabolite(s), -antimetabolite combination chemotherapy for incurable human cancer, 1248-1262
Metaplasia, and bronchiolar proliferation, associated with bronchiectasis, pulmonary infarcts, and anthracosis, 499-508
myeloid, leukocyte alkaline phosphatase levels in, 760-766
comparison of cytochemical and biochemical methods to determine, 760-766
squamous, of uterine cervix, interference microscopy in study of nuclear mass and allied phenomena in, 894-901
Metastasis(es), cranial and dural, from carcinomas, distinction from meningiomas, 364
distant, from breast, prednisone therapy for, 102-103
ectopic, ossifying, in skeletal muscles, from carcinoma of lung, 257-262
from biliary duct carcinoma, 711
distribution of, 711
mode of spread of, 711
operative procedure and survival of patients with, 712-713
from breast cancer, to axillary and internal mammary lymph nodes, 14-22
histological type of, 16
incidence of, 15-19
levels of, 18, 21
size of, 16-17
effects of BCP therapy on, 509-520
hormonal therapy in, 735-737, 738-740, 1270-1272
from carcinoma of gallbladder, 1012
from cholangiolocellular carcinoma of liver, 755
from embryonal rhabdomyosarcoma of head and neck, 69-73
from incurable breast cancer, treated by oophorectomy and adrenalectomy, 58-68
results after, 64-66
from male breast cancer, 821-830
hormones in treatment of, 826-827
orchiectomy in treatment of, 826-827, 830
sites of, 821, 822, 830
survival rates in, 830
from malignant testicular tumors, 5-year survival rates in, 325-327
from papillary carcinoma of kidney, inclusion of visceral epithelium of renal pelvis in, 1052-1057

Metastasis(es)—(*Contd.*)
from sarcoma botryoides of vagina, to abdominal cavity, frequency of, 82
from thyroid cancer, resectable and nonresectable, collection of radioactive iodine by, after thyroidectomy, 375-383
hepatic, factors influencing development of, in Sprague-Dawley rats, 926-928, 929-932
effect of partial hepatectomy on incidence and growth of, 929-932
time relationship of hepatectomy to development of, 930-932
Walker carcinosarcoma 256, preparation of suspension of tumor cells in, 926-928, 929-932
or nodal, from carcinoma of lower colon, and pelvic exenteration, 681-687
lung and node, from squamous cell carcinoma of skin, induced in mice by cigarette tar, 732-734
lymph node, from gastric carcinoma, relation of to survival, 1158-1161
lymphatic and hematogenous, from teratoma of sacrum, 890-892
recurrence of thyroid carcinoma, results after I^{131} therapy, 6-9
sites of, from synovial sarcoma in children, 1125
to adrenal glands and ovaries, from breast carcinoma, incidence of, 521-526
factors influencing, 521-522
to axilla, from breast cancer, level of and prognosis in, 714-720
to axillary nodes, from breast cancer, significance of early treatment of, 688-692
to brain and skull, prognosis in, 609-613
from breast cancer, 611-613
from lung cancer, 611-613
to breast and end results of hypophysectomy, 85-92
to cervical lymph nodes, from cancer of the epiglottis, frequency of, 250
survival rates in, 253, 255
to lung, in CDBA mice inoculated with melanoma S91 Cloudman, 23-26
effect of irradiation on, 23-24
to lymph nodes, from prostatic cancer, 405
5-year survival rates in, 405
incidence of, 405
widespread from carcinoma of skin, 287-288
Methotrexate (4-amino-N^{10}-methyl pteroylglutamic acid), and intra-arterial, and intramuscular CF as therapy for incurable human cancer, 1248-1262
20-Methylcholanthrene, carcinogenic action of, on AK mouse skin in organ culture, 663-672
amount of dose, and effect on type of changes in skin after, 667
degenerative changes in skin from, 665-668
effect on hair follicles of explanted skin, 665-666
method of application of, 663-664
use of explants in, 664-667
Microscopy, interference, in study of nuclear mass and allied phenomena in invasive squamous cell carcinoma and other atypias of uterine cervix, 894-901
MILES, CHARLES P.: Sex chromatin in cultured normal and cancerous human tissues, 229-305
MILLER, EDWARD, *jt. au.*, 1248-1262
MILLER, GEORGE V., *jt. au.*, 286-288
MILLER, JACOB I., *jt. au.*, 446-462
Millipore filter, use in exfoliative cytology of pleural and ascitic fluids, 278-285
Milontin (phensuximide), in anticonvulsant therapy, and induced lymphadenopathy, 167, 169-170
Mole, hydatidiform, topographic study of uteri of patients with, 785-789
alterations in endocervix in, 785-786
MOLINATTI, G. M.; CAMANNI, F., and PIZZINI, A.: Malignant hypertension in a case of nonchromaffin paraganglioma with a high concentration of catecholamine, 878-883
MONIS, BENITO; NACHLAS, MARVIN M., and SELIGMAN, ARNOLD M.: Histochemical study of 3 dehydrogenase systems in human tumors, 1283-1247
NACHLAS, MARVIN M., and SELIGMAN, ARNOLD M.: Study of leucine aminopeptidase in neoplastic and inflammatory tissues with a new histochemical method, 601-608
Monkey(s), rhesus, mammary response to prolonged estrogen treatment of, 767-781
MOORE, GEORGE E., *jt. au.*, 625-627
MOORE, OLIVER, and GROSSI, CARLO: Embryonal rhabdomyosarcoma of the head and neck, 69-73
MOORE, RICHARD B.; REAGAN, JAMES W., and SCHOENBERG, MELVIN D.: The mucins of the normal and cancerous uterine mucosa, 215-221
MOORE, RICHMOND L., and LATTES, RAFFAELE: Papillomatosis of larynx and bronchi. Case report with 34-year follow-up, 117-126
MOSTOFI, F. K.; THEISS, ERICH A., and ASHLEY, DAVID J. B.: Tumors of specialized gonadal stroma in human male patients. Androblastoma, Sertoli cell tumor, granulosa-theca cell tumor of the testis, and gonadal stromal tumor, 944-957
Mouse (mice), AK, effect of 20-methylcholanthrene on skin of, 663-672
effect of viruses on leukemia L4946 in, 222-231
AKR, effects of viral infections on development of spontaneous leukemia in, 857-860
CAF1, cigarette tar–induced skin cancer in, 731-734
metastases to lung and node from, 732-734
C57BL and strain A, production of tumors in, by aromatic and aliphatic polycyclic hydrocarbons, 154-159
C3H, changes in cervix, antedating induced cancer, 389-395
growth of small compatible tumor implants in, in presence of admixed radiation-killed or incompatible tumor cells, 697-707
Swiss, use in study of carcinogenicity of benzofluoranthenes, 1194-1199
in study of carcinogenicity of cigarette smoke condensates, 1073-1078
in study of carcinogenicity of higher polycyclic hydrocarbons, 1079-1086
MSH (melanocyte-stimulating hormone), effect of on skin pigmentation in case of hypopituitarism associated with cholesteatoma and malignant hypertension, 534-535
Mucins, production of, in normal and cancerous uterine mucosa, 215-221
staining to determine, 215-220
Mucormycosis, infection as a complication of therapy in cancer patients, 330-350
case reports, 339-347
histological findings in, 339-347
recorded evidence of, 330-331, 334-338
treatment methods in, 339
types of infections in, 331-333, 339
Mucosa, normal exocervical, of uterine cervix, interference microscopy in study of nuclear mass and allied phenomena in, 894-901
uterine, mucins in normal and cancerous, 215-221
Mucous membranes, involvement of in Kaposi's sarcoma, 290-297
MULLIGAN, R. M.: Geriatric cancer. Analysis of 257 autopsied cancer patients 70 years of age and older, 970-981
MURISON, P. J., *jt. au.*, 735-737, 1270-1272
MYERS, W. P. LAIRD: Calcium studies in malignant tumors. II. Application of simplified measurements to clinical problems, 494-498
and REYDEL, ROSALIND: Calcium studies in malignant tumors. I. The determination of calcium in serum and urine by a simplified titrimetric procedure, 485-493
NACHLAS, MARVIN M., *jt. au.*, 601-608, 1238-1247
NEAL, M. PINSON, JR.; HERLITZKA, ALFRED J.; CURRERI, ANTHONY R., and PAUL, LESTER W.: Survey procedures for the detection of asymptomatic tumors of the rectum and colon, 833-839
Neck, dissection, radical, for primary branchiogenic cyst carcinoma, 235-239
NEFZGER, DEAN, *jt. au.*, 351-358
Neurilemoma(s), distinction between meningiomas and, 364-370
Neuroblastoma(s), maturation of, into ganglioneuroma, 108-115
NEVIUS, DONALD B., and FRIEDMAN, NATHAN B.: Mesotheliomas and extraovarian thecomas with hypoglycemic and nephrotic syndromes, 1263-1269
Nicotine, content in hot hexane–extracted and unextracted cigarette smoke condensates, 1073-1078
Nirvanol (5-ethyl-5-phenylhydantoin), in anticonvulsant therapy, and induced lymphadenopathy, 164, 179
Nitro-BT (2,2'-di-*p*-nitrophenyl-5,5'-diphenyl-3,3'-(3,3'-dimethoxy-4,4'-biphenylene)-ditetrazolium chloride), as chromogen electron acceptor in study of activity of dehydrogenases in human tumors, 1238-1247
Nitrocarbamates, toxicity in animals and man, 446-462
chemical breakdown of, 447-448
classification of compounds, 449-451
clinical observations in patients with far advanced cancer treated with, 460
comparison of, with HN2 in mice, 459
effect of lethal (LD_{100}) and median lethal (LD_{50}) doses of, 458-459
hydrolytic activity of benign and malignant tissues, 456-458
organic syntheses of, 448-451
preparation of tissue and body fluids used in enzyme solutions, 451-453
rate of enzymatic hydrolysis of, 450-453
Schönemann procedure to determine, 452-453
studies in experimental animals and far advanced cancer patients, 453-460
Nitrogen mustard (HN2), in treatment of tumor ascites in mice, effect of AET on toxicity level of, 1003-1008
quantitative technique for measuring cytotoxicity of, 938-843
N-Nitroso-*N*-(2-chloroethyl)carbamates, preparation of, clinical evaluation of, hydrolytic activity of, toxicity of, 446-462
19-Nortestosterone propionate (Δ^4-estren-17β-ol-3-one propionate), in treatment of advanced breast cancer, 735-737

Occupation(s), outdoor, and relationship to lung cancer, 406-413
OCHSNER, ALTON, *jt. au.*, 596-600
OCHSNER, SEYMOUR, *jt. au.*, 806-819
OLCH, PETER D.; ECK, RICHARD V., and SMITH, ROBERT R.: An experimental study of the effect of external irradiation on a "primary" tumor and its distant metastases, 23-26
Oophorectomy, or adrenalectomy, and response to hypophysectomy for metastatic breast cancer, 88-91
with adrenalectomy, for incurable breast cancer, results of, 58-68
Optical density, studies of white blood cell extracts from patients with chronic myelogenous and chronic myeloid leukemia, 232-234
Oral cavity, cancer of, irradiation effects on malignant cells in smears of, 614-619
cell alterations, 616, 618-619
conversion from positive to negative smears, 615-616
destruction of malignant cells, 618-619
increased exfoliation of malignant cells, 616-619
Orchiectomy, bilateral, in treatment of male breast cancer, 820-831
in treatment of malignant testicular tumors, 325-327
of benign and malignant tumors, 944

Ovariectomy, therapeutic, for breast carcinoma, incidence of metastases in, 521-524
Ovary(ies), cancer of, among women in 3 Catholic religious orders, statistical study of, 1218-1219
endodermal sinus tumors of, comparative morphogenesis of, 1092-1105
metastases to, from breast carcinoma, incidence of, 522, 524
absence of autocastration from, 524-526
pathological features of, in relation to remissions after prednisone therapy for advanced breast cancer, 99-100, 103

P^{32}. *See* Radioactive phosphorus
DE PADUA, CAESAR, *jt. au.*, 688-692
Paget's disease, long term studies of blood chemistry in, 1226-1237
case reports, 1234-1236
determination of alkaline phosphatase in, 1227, 1230-1232
Bodansky unit for measurement of, 1227
of serum acid phosphatase in, 1227, 1229
of serum ionized calcium in, 1227, 1229
of serum total calcium in, 1229
of serum total protein in, 1229
relation to patient age and sex and extent of disease in, 1231-1236
with and without superimposed osteogenic sarcoma, 1226-1237
Palliation, intrascapulothoracic amputation in management of breast cancer, 643-647
PALMER, WILLIAM S., *jt. au.*, 884-888
PAPANICOLAOU, GEORGE N. (frontispiece), facing p. 429
Papilloma(s), multiple, squamous cell, of bronchi and larynx, 117-126
production of, in Swiss mice, by cigarette smoke condensates, 1073-1078
by higher polycyclic hydrocarbons in cigarette smoke condensates, 1079-1086
Papillomatosis, of larynx and bronchi, 117-126
Paraganglioma(s), nonchromaffin, malignant hypertension associated with, 878-883
case report, 878-879
chromaffin reaction in, 880-881
chromatographic studies in, 880-881
concentration of catecholamines in, 878-883
preparation of tumor tissue and of right adrenal tissue, in determination of, 880-881
qualitative and quantitative determination of adrenaline and noradrenaline levels in, 880-882
Parathyroid gland, functioning tumors of, clinical and pathological study of, 902-911
duration of symptoms in, 902
exploration of neck for, 905-907
of mediastinum for, 905-907
location of, 903, 905
operative failures in, 907
patient age and sex distribution in, 902, 903
pathological findings in, 903-905
postoperative complications in, 907
serum calcium and phosphate levels in, 903, 904
symptoms and systemic involvement in, 902-903
Parotid gland, saliva acid phosphatase activity of, in normal persons and in patients with prostatic cancer, 359-363
PAUL, LESTER W., *jt. au.*, 833-839
PEARSON, OLOF H., and RAY, BRONSON S.: Results of hypophysectomy in the treatment of metastatic mammary carcinoma, 85-92
Peganone (ethotoin), in anticonvulsant therapy, and induced lymphadenopathy, 175
Pelvis, advanced malignant tumors of, pelvic exenteration for, 681-687
renal, visceral epithelium of, inclusion of in papillary carcinoma of kidney, and its metastases, 1052-1057
PERESE, D. M.: Prognosis in metastatic tumors of the brain and the skull: an analysis of 16 operative and 162 autopsied cases, 609-613
Peritoneum, mesenchymomatous mesothelioma of, 884-888
PETIT, D. W., *jt. au.*, 371-383
PHILLIPS, LOUISE LANG; SKRODELIS, VALIJA, and FUREY, CLEMENT A.: The fibrinolytic enzyme system in prostatic cancer, 721-730
Pheochromocytoma(s), histopathology of, 861-877
clinical features of, 862-865
diagnosis criteria of, 861
Henle chromoreaction as test of, 862-863, 869-874
malignant changes in, 865-875
metastases from, 869
morphological patterns and cytology of, 863-867, 873-874
re-evaluation of reported cases of, 861-862, 868
Phosphatase, alkaline and acid, levels in patients with prostatic cancer, 722-726
content in ossifying metastases from primary lung tumor, 257-262
leukocyte alkaline, activity in hematopoietic disorders, 760-766
analysis of values obtained in, 761
comparison of results of cytochemical and biochemical determinations in, 764-765
method of biochemical determination of, 760-761
of cytochemical determination of, 760
results in normal subjects and in patients with various hematopoietic disorders, 762-765
types of disorders studied, 761
parotid saliva acid, levels in normal persons and in cancer patients, 359-363
measurement of, affecting variables in, 360-361
serum, acid, levels of, in Paget's disease, 1226-1237
alkaline, levels of, in Paget's disease, 1226-1237
relation to patient age and sex and extent of disease in, 1231-1236
significance of elevations of, 1233-1236
Phosphorus, serum, inorganic, levels in Paget's disease, 1229-1237
Photofluorography, in detection of asymptomatic rectum and colon tumors, 833-839
Phycomycetous infection (mucormycosis), as a complication in treatment of cancer patients, 330-350
PIERCE, G. B., and DIXON, F. J., JR., with the technical assistance of VERNEY, E.: Testicular teratomas. I. Demonstration of teratogenesis by metamorphosis of multipotential cells, 573-583
and DIXON, F. J., JR., with the technical assistance of VERNEY, E.: Testicular teratomas. II. Teratocarcinoma as an ascitic tumor, 584-589
PIERCE, MILA; CARTER, ROBERT E., and RIGOR, EUSTACIA: Studies on the relationship of viral infections to leukemia in mice. I. A comparison of the effects of lethal and sublethal infections due to Egypt 101 virus on transmissible leukemia in mice, 222-231
jt. au., 857-860
PINKEL, DONALD, and NEFZGER, DEAN: Some epidemiological features of childhood leukemia in the Buffalo, N.Y., area, 351-358
PITCOCK, JAMES A.; BAUER, WALTER C., and MCGAVRAN, MALCOLM H.: Hodgkin's disease in children. A clinicopathological study of 46 cases, 1043-1051
Pituitary gland, chromophobe tumor of, combined with nonmetastasizing fibrosarcoma, 791-798
case reports, 791-797
duration of disease in, 797
pathological findings in, 791, 793
radiation therapy for, 791-793, 796-798
dosage in, 791-793, 796, 797
factors in, 792
recurrence after, 797
Pituitary gland, chromophobe tumor of, combined with nonmetastasizing fibrosarcoma—(*Contd.*)
surgical procedures in, 796, 797
recurrence after, 797
symptoms in, 797
hormone excretion, effect of prednisone on, in treatment of advanced breast cancer, 93-107
PIYARATN, PRAPONT: Relative incidence of malignant neoplasms in Thailand, 693-696
PIZZINI, A., *jt. au.*, 878-883
Placenta, rat, extraembryonic structures of, in study of endodermal sinus tumors of ovary and testis, 1092-1105
tissue homogenates, effect of estradiol on DPNH and α-ketoglutaric acid production in, 127-134
Plasma, changes in lactic dehydrogenase levels in, in cancer, 27-39
Plasmacytosis, of bone marrow, in cancer patients, relation to increased serum proteins, 651-655
hypoalbuminemia in, 654
mean values for total proteins and various globulins in, 652
Pleura, diffuse mesothelioma of, prolonged survival after Au^{198} therapy for, 799-805
case report, 799-800
description of tumors of, 800
diagnosis of, 803
roentgenological findings in, 803
symptoms of, 800, 803
PLUTOWA, ALEKSANDRA, *jt. au.*, 263-277
Polyp(s), of rectum, biopsy to determine operative procedures for, 620-624
abdominoperineal resection for, 620
agreement between biopsy and final diagnosis, 620, 622
classification of material in, 620-623
criteria commonly used in, 623
follow-up observations on, 620-622
polypectomy for, 620-624
sources of errors in, 623
types of biopsy specimens studied for, 620-623
Polypectomy, for rectal polyps, 620-624
POOL, JOHN L., *jt. au.*, 47-57
Prednisone ($\Delta^{1,4}$-pregnadiene-17α,21-diol-3,11,20-trione), in treatment of advanced mammary cancer, 93-107
Proctosigmoidoscopy, for detection of asymptomatic tumors of rectum and colon, 833-839
Progestin(s), histological effects of, on hyperplasia and carcinoma in situ of endometrium, 1106-1122
Prostate, cancer, human, effect of steroid administration on 17-ketosteroid level in, 183-186
levels of fibrinolytic enzymes of blood in, 721-730
alkaline and acid phosphatase studies in, 722, 723
comparison with patients with benign prostate disease, 722-726
with patients with cancer of bladder or cervix, 726
effect of stilbestrol therapy on, 727-728
method of measuring, 721-722
optical density determinations in, 722
similarity to pattern in hypofibrinogenemia, 725-727
trichloroacetic acid–soluble products in, 728-729
operative procedures in, 396-405
clinical material in, 396, 399, 402
5-year survival, local recurrence, and metastases, relation to proved extent of disease, 400-403
radical perineal prostatectomy, 396-400
radical retropubic prostatectomy with lymph node dissection, 396, 402
relationship of clinical and pathological findings and extent of cancer in, 399-403
serum and phosphatase levels in, 398, 399
simple total cystectomy, 396, 400-401
urinary symptoms in, 398

Prostate, cancer, human, effect of steroid administration on 17-ketosteroid level in—(*Contd.*)
parotid saliva acid phosphatase levels in, 359-363
method of collecting secretions in, 359-360
of making determinations in, 360
statistical evaluation of significant differences in, 362
values in normal persons versus prostatic cancer patients, 361-362
Prostatectomy, radical perineal, for cancer of prostate, results of, 396-405
radical retropubic, with lymph node dissection, results of, 396-405
Protein(s), serum, relation of increase in, to plasmacytosis of bone marrow in cancer patients, 651-655
total, levels in Paget's disease, 1229-1237
use of conjugates of, in differential fluorescence staining of normal and neoplastic tissues, 741-752
PRZYBORA, LUCJAN A., and PLUTOWA, ALEKSANDRA: Histological topography of carcinoma in situ of the cervix uteri, 263-277
Psammoma bodies, and thyroid cancer, incidence of, 656-662
Pseudohermaphrodite(s), dysgenetic gonadal tumors in, 552-572
Psychiatry, as approach to evaluation of effect of cancer education on lay public, 1200-1206
Pyruvate kinase, in serum of normal individuals and cancer patients, 1087-1091
effect of hemolysis on serum values in, 1088-1089
of ions in, 1088, 1089
of temperature in, 1089
method of measuring activity of, 1087-1090
measurement unit in, 1087
procedure followed in, 1088
reagents in, 1087
results of determination of, in cancer patients, types of cancer and activity levels in, 1090, 1091
in normal individuals, 1089
source of and preparation of blood sera in, 1088
Radiation. *See also specific forms of therapy*
after orchiectomy in treatment of malignant testicular tumors, 323, 328
effect on growth of small compatible tumor implants in mice, 697-707
irreversible damage and growth of tumor grafts, 698-700, 703-706
external, effect on a "primary" tumor and its distant metastases, 23-26
dual response to experimentally induced metastases in mice, 24-26
increased number of metastases after, possible explanation of, 26
in treatment of Hodgkin's disease in children, 1047-1051
ionizing, exposure to and development of leukemia in children, 357
palliative value of, in benign tumors of minor salivary glands, 43, 46
after inadequate surgery for malignant tumors of minor salivary glands, 43, 44-46
in inoperable malignant tumors of minor salivary glands, 46
postoperative, in treatment of testicular tumors, 944
therapy, for cancer of epiglottis, 252-254
for chromophobe tumor of pituitary, 791, 793
possible relationship to development of fibrosarcoma, 796-798
in embryonal rhabdomyosarcoma, 70-73
Radioactive gold (Au^{198}), in treatment of diffuse pleural mesothelioma, 799-805
iodine (I^{131}), in postoperative treatment of thyroid cancer, 371-383
use in diagnosis of thyroid carcinoma, 1-5, 6-9
phosphorus (P^{32}), incorporation of, in Walker carcinoma, and in normal tissues of rats, 962-965
intraperitoneal injections of solutions in, 963
doses of, 963
method of counting surface activity in, 962-964
time period after injection of, 964
transplantation of tumor in, 962, 963
total turnover of, in transplanted breast cancer, inflammatory granuloma, and normal stomach tissue of ZBC mice, 966-969
biological concentration coefficient (BCC), as expression of results of, 966-968
intraperitoneal injections of solutions in, 966
method of counting surface activity in, 966
preparations of tissues in, 966
transplantation of tumor in, 966
strontium (Sr^{89}), late effects on bone from, 306-322
effect on metaphysis of, 310-317
experimental method with noninbred rats, 306-307
histological changes in bones from, 307-315, 317-321
incidence of gross tumors in bones from, 307, 315-317
results of, 307-311
Radiography, use in evaluation of urinary tract after urinary diversion to an ileal bladder, 1134-1141
Radium, placques in treatment of sympathicoblastoma, 108-115
RANDALL, H. T., *jt. au.*, 58-68
RAPP, ROBERT, *jt. au.*, 614-619
RAPPORT, MAURICE M.; GRAF, LISELOTTE; SKIPSKI, VLADIMIR P., and ALONZO, NICHOLAS F.: Immunochemical studies of organ and tumor lipids. VI. Isolation and properties of cytolipin H, 438-445
Rat(s), growth of bone tumors and changes in bones of, after Sr^{90} administration, 306-322
placenta of, comparative morphogenesis of so-called mesonephroma ovarii (Schiller) and extraembryonic (yolk sac-allantoic) structures of, 1092-1105
Sprague-Dawley, artificially induced hepatic metastases in, 926-928, 929-932
RAY, BRONSON S., *jt. au.*, 85-92
Reaction(s), Henle, or "chromaffin," as diagnostic test for pheochromocytoma, 861-877
REAGAN, JAMES W., and WENTZ, W. BUDD: Changes in the mouse cervix antedating induced cancer, 389-395
jt. au., 215-221, 384-388, 894-901
Rectum. *See also* Colon
advanced carcinoma of, pelvic exenteration for, 681-687
and colon, asymptomatic tumors of, barium enema and proctosigmoidoscopic examinations in, 833-839
polyps of, biopsy to determine operative procedure for, 620-624
Respiratory tract. *See also individual names of organs*
frequent and/or chronic irritation of, and relationship to lung cancer, 406-413
RÉVÉSZ, LÁSZLÓ, *jt. au.*, 697-707
REYDEL, ROSALIND, *jt. au.*, 485-493
Rhabdomyosarcoma, embryonal, of head and neck, 69-73
anatomical sites of, 69
case report, 71
initial histological diagnosis of, 69
metastases from, 69-70
radiotherapy as primary treatment for, 70-73
surgery as treatment of, 70, 73
survival rates in, 69-70, 71
symptoms and clinical course in, 69-70
RHOADS, CORNELIUS P. (1898–1959), Frontispiece, facing p. 1073
RICHARDSON, HOWARD L., and THIERSCH, JOHN B.: A study of the anatomical distribution of residual carcinoma of the cervix, 10-13
RICHART, RALPH, and SHERMAN, CHARLES D., JR.: Prolonged survival in diffuse pleural mesothelioma treated with Au^{198}, 799-805
RIENITS, K. G.: The effects of estrone and testosterone on respiration of human mammary cancer in vitro, 958-961
RIGOR, EUSTACIA, *jt. au.*, 222-231
RINGERTZ, NILS; KLEIN, EVA, and RÉVÉSZ, LÁSZLÓ: Growth of small compatible tumor implants in presence of admixed radiation-killed or incompatible tumor cells, 697-707
ROATH, O. S., *jt. au.*, 509-520
ROBBINS, GUY F.; BERG, JOHN W.; BROSS, IRWIN; DE PADUA, CAESAR, and SARMIENTO, AUGUSTO P.: The significance of early treatment of breast cancer. Changes correlated with the cancer education programs of 1940–1955, 688-692
ROBERT, J., *jt. au.*, 1087-1091
Roentgenography, in detection of asymptomatic rectum and colon tumors, 833-839
RONGONE, E. L., *jt. au.*, 735-737, 1270-1272
RUBIN, ISIDOR C. (1883–1958), Frontispiece, facing p. 215
RUSKA, CARLA, *jt. au.*, 982-1002
RUSKA, HELMUT, *jt. au.*, 982-1002

S-(2-aminoethyl)-isothiuronium bromide hydrobromide (AET), used in localizing effect of alkylating agents and to extend their therapeutic index in treatment of neoplastic ascites, 1003-1008
Sacrum, malignant teratoma of, in adult, 889-893
SAKO, KUMAO, and MOORE, GEORGE E.: Lymphosarcoma of multicentric or secondary foci in distant sites over a period of 8 years, 625-627
Salivary gland(s), minor, benign and malignant tumors of, 40-46
clinical characteristics of, 41-42
diagnosis of, 41-44
histological classification of, 41
initial methods of treatment of, 41-42
location of, 40-44
metastases from, 45
operative procedures in, 43-44
radiation therapy for, 46
results of treatment of, 43-45
SALTZSTEIN, SIDNEY L., and ACKERMAN, LAUREN V.: Lymphadenopathy induced by anticonvulsant drugs and mimicking clinically and pathologically malignant lymphomas, 164-182
SANDBERG, AVERY A.; WOERNLEY, D. L., and CROSSWHITE, LOIS H.: The relation of bone marrow plasmacytosis to serum proteins in cancer patients, 651-655
Sarcoma(s), botryoides, of vagina, 74-84
cells, radiation-killed or genetically incompatible, effect on small compatible tumor grafts, 697-707
Kaposi's, 289-298
associated malignant disease with, 290, 297
course of patients with, 290-293
5-year survival rates in, 291-292
involvement of mucous membranes in, 290-297
of skin in, 290-297
of viscera in, 293-297
local excision for, 293
location of lesion in, 290
malignant transformation in, 296-297
pathology and pathogenesis in, 293
patient age at onset in, 289
radiation therapy for, 292
survival rates in, 291-293
multicentric chondroblastic, of bone, 1153
osteogenic, superimposed, in Paget's disease, long term blood chemistry studies in, 1226-1237
reticulum cell, in primary malignant lymphomas of lung, 806-819
solitary chondroblastic, of bone, 1142-1157
synovial, in children, 1123-1133
age and sex incidence in, 1130-1131
case reports, 1127-1130
gross appearance of, 1125-1127
initial symptoms of, 1125
location of, 1125, 1131, 1133
origin of development in, 1131
salvage and survival rates in, 1132
sites of metastasis from, 1125
wide local excision as desired treatment of, 1132

SARMIENTO, AUGUSTO P., *jt. au.*, 688-692
SCHNEIDERMAN, MARVIN A., *jt. au.*, 139-146
SCHOENBERG, MELVIN D., *jt. au.*, 215-221
SCHWARTZ, H., *jt. au.*, 371-383
Scintiscanning, in evaluation of nontoxic thyroid nodules, 1-5, 6-9
Scrotum, ovarian type pseudomucinous cystadenoma in, 187-190
  case report, 187-189
SEAL, S. H.: Silicone flotation: a simple quantitative method for the isolation of free-floating cancer cells from the blood, 590-595
SEGALOFF, A.; BOWERS, C. Y.; RONGONE, E. L., and MURISON, P. J.: Hormonal therapy in cancer of the breast. XIV. The effect of 19-nortestosterone propionate therapy on clinical course and hormonal excretion, 735-737
BOWERS, C. Y.; RONGONE, E. L., and MURISON, P. J.: Hormonal therapy in cancer of the breast. XV. Effect of epitestosterone propionate on clinical course and hormonal excretion, 1270-1272
SELIGMAN, ARNOLD M., *jt. au.*, 446-462, 601-608, 1238-1247
Seminoma(s), in hermaphrodites, 552-572
  results of treatment by surgery and irradiation for, 323-329
Sertoli cell tumor, as tumor of specialized gonadal stroma in male patients, 944-952
Serum, calcium and phosphate, levels in functioning tumors of parathyroid gland, 902-911
  changes in lactic dehydrogenase levels in, in cancer, 27-39
  levels of calcium in, from cancer patients, using an EDTA titrimetric method, 485-493
Sex, chromatin, in cultured normal and cancerous human tissues, 299-305
    counting of sex chromatin clumps, 300-302
    differences between normal and cancerous tissue cultures, 300-304
    method of study, 299
    preparation of cultures, 299
  organs, anomalies in development of, 189-190
SEYBOLT, JOHN F., *jt. au.* (frontispiece), facing p. 429
SHARON, DONALD B.: Radioactive phosphorus (P^{32}) studies in transplanted carcinoma. I. Incorporation of P^{32} measured by surface activity in Walker carcinoma and normal tissues of albino rats, 962-965
  Radioactive phosphorus (P^{32}) studies in transplanted carcinoma. II. Total P^{32} turnover in transplanted mammary carcinoma, inflammatory granuloma, and normal stomach tissue of ZBC mice, 966-969
SHAW, H. J., and EPSTEIN, S. S.: Cancer of the epiglottis, 246-256
SHERMAN, CHARLES D., JR., *jt. au.*, 799-805
SHERWIN, RUSSELL P.: Histopathology of pheochromocytoma, 861-877
SHIMKIN, MICHAEL B.: Jacob Wolff, historian and biographer of cancer (frontispiece, Jan.-Feb.)
SIDRANSKY, HERSCHEL, *jt. au.*, 806-819
Silicone(s), quantitative method for isolating free-floating cancer cells from blood by flotation, using, 590-595
    method of blending, 590-591, 593
    specific gravity of, 593
SIKES, MARGUERITE P., *jt. au.*, 1248-1262
SIMARD, L. C. (frontispiece), facing p. 857
SKIFF, JOHN V., JR., *jt. au.*, 982-1002
Skin, carcinogenic effect of 20-methylcholanthrene on AK mouse, 663-672
  carcinoma, primary mucoepidermoid, 286-288
    autopsy findings in, 287
    case report, 286-288
    metastasis from, 287-288
    microscopic description of, 287-288
    possible sweat gland origin of, 288
    treatment of, 286
  involvement of in Kaposi's sarcoma, 290-297
Skin—(*Contd.*)
  pigmentation of, and hypopituitarism, associated with malignant hypertension and intrasellar cholesteatoma, 527-536
    role of intermedin or melanocyte-stimulating hormone (MSH) in, 534-535
  salivary gland type of mixed tumors of, 537-543
    case reports, 540-542
    criteria for diagnosis of, 537
    duration of and rate of growth of, 539-540
    microscopic description of, 540
    patient age and sex and anatomical distribution of, 537-539
    size of, 539
  tumors of, in C57BL and strain A mice, production by aromatic and aliphatic polycyclic hydrocarbons, 154-159
SKIPSKI, VLADIMIR P., *jt. au.*, 438-445
SKORYNA, STANLEY C., and KAHN, DAVID S.: The late effects of radioactive strontium on bone. Histogenesis of bone tumors produced in rats by high Sr^{90} dosage, 306-322
SKRODELIS, VALIJA, *jt. au.*, 721-730
Smear, Papanicolaou, as screening procedure for detection of cervical cancer, 933-937
    results in repeat population, 935-936
    in selected groups of new patients, 936
    in well population, 934-935
SMITH, DAVID E., *jt. au.*, 135-138
SMITH, ROBERT R., *jt. au.*, 23-26, 1029-1042, 1134-1141
Smog, effect of on frogs' esophagus, 153
  analysis of naturally occurring and synthetically reproduced, 148, 156-157
Smoking. *See also* Cigarette(s) *and* Tobacco
  among Seventh-Day Adventists, and incidence of cancer and coronary artery diseases, 1016-1028
  effect of, on bronchial and tracheal epithelium, 473-484
  relationship to lung cancer, 406-413
    amount of and, 408-410
    inhalation and, 410-411
    sex differential and, 411
SNEGIREFF, LEONID S., *jt. au.*, 406-413
SOLOMON, ERWIN S., *jt. au.*, 191-192
SOLOMON, ROBERT D., *jt. au.*, 446-462
SOKAL, JOSEPH E., and BUCHWALD, KENNETH W., with the technical assistance of ELLIOTT, JEANNETTE: The effect of cortisone and cortisol on 17-ketosteroid excretion in carcinoma of the prostate and other neoplasms, 183-186
Soot, carcinogen adsorption on, 148-154, 161
SPJUT, HARLAN J., *jt. au.*, 681-687
Sr^{90}. *See* Radioactive strontium
Staining, differential, of normal and neoplastic tissues, 741-752
    comparison of normal tissues and tumors in, 743-748, 750-751
    interaction of tissue protein and serum protein in, 744-746, 750
    preparation and staining of, 743
    results of, 743-748
    tissue sections used in, 742, 743
    use of fluorescein or rhodamine isocyanates, in, 742-743
    use of serum protein conjugates from various experimental animals and from humans, 741-742
  histochemical methods, to determine presence of inclusion bodies in, 1052-1057
  identification of mesothelial cells in serous effusions, 429-437
STARR, P., *jt. au.*, 371-383
Statistics. *See also* Epidemiology
  age and incidence of cancer, 970-981
  incidence, of malignant tumors, in Thailand, 693-696
  method for evaluating epidemiological features of childhood leukemia in Buffalo, N.Y., area, 351-358
  mortality, among women in 3 Catholic religious orders, with special reference to cancer, 1207-1225
    incidence of death from cancer in, 1213-1219
      from cardiovascular-renal disease in, 1220
Statistics, mortality, among women in 3 Catholic religious orders, with special reference to cancer—(*Contd.*)
      from tuberculosis in, 1219-1220
    methodology in, 1209-1211, 1224-1225
    previous studies of, 1207-1208
    technical appendix to study of, 1224-1225
  survival, in breast cancer, significance of early treatment in, 688-692
STEINER, PAUL E., and HIGGINSON, JOHN: Cholangiolocellular carcinoma of the liver, 753-759
STERN, ELIZABETH: Rate, stage, and patient age in cervical cancer. An analysis of age specific discovery rates for atypical hyperplasia, in situ cancer, and invasive cancer in a well population, 933-937
STERNBERG, WILLIAM H.; SIDRANSKY, HERSCHEL, and OCHSNER, SEYMOUR: Primary malignant lymphomas of the lung, 806-819
Steroid(s). *See also* Hormone(s) *and individual names*
  administration, and effect on 17-ketosteroid excretion in patients with prostatic cancer, other cancers, and benign diseases, 183-186
  as therapy for advanced breast cancer, 93-107
Stilbestrol, effect on levels of fibrinolytic enzymes in patients with prostatic cancer, 725, 727-728
STOKKE, TORVALD, *jt. au.*, 323-329
Stomach, cancer of, relation of structure of, to long and short term survival, 1158-1162
STOUT, ARTHUR PURDY, and GORMAN, JOHN G.: Mixed tumors of the skin of the salivary gland type, 537-543
jt. au., 912-925, 1123-1133
Stroma, gonadal, specialized, tumors of, in male patients, 944-952
SULLIVAN, ROBERT D.; MILLER, EDWARD, and SIKES, MARGUERITE P.: Antimetabolite-metabolite combination cancer chemotherapy. Effects of intra-arterial Methotrexate–intramuscular citrovorum factor therapy in human cancer, 1248-1262
SUNTZEFF, VALENTINA, *jt. au.*, 473-484, 731-734
Surgery. *See also individual names of operations*
  in treatment of Hodgkin's disease in children, 1047-1050
  tumor seeding by suture thread during, 1029-1042
    prevention of, by treatment of sutures with tumoricidal agents, 1029-1042
Survival, long and short term, relation of structure of gastric carcinoma to, 1158-1162
Suture(s), tumor seeding by, prevention of with pretreatment of with tumoricidal agents, 1029-1042
Sweat gland(s), as origin for malignant mixed tumor, 541-543
Sympathicoblastoma, maturation of, into ganglioneuroma, 108-115
    case reports, 108-114
    Coley's toxin in treatment of, 108, 112, 115
    maturation and degeneration of ganglion cells in association with, 115
    radium placques in treatment of, 108, 115
Symptom(s), of cancer, psychiatric evaluation of motivation for patient delay in seeking treatment of, 1200-1206
Syndrome(s), nephrotic, association of mesotheliomas and extraovarian thecomas with, 1263-1269

TAGNON, R. F., *jt. au.*, 527-536
TAYLOR, RUTH S.; CARROLL, BENJAMIN E., and LLOYD, J. WILLIAM: Mortality among women in 3 Catholic religious orders with special reference to cancer, 1207-1225
TEILUM, GUNNAR: Endodermal sinus tumors of the ovary and testis. Comparative morphogenesis of the so-called mesonephroma ovarii (Schiller) and extraembryonic (yolk sac-allantoic) structures of the rat's placenta, 1092-1105

Teratocarcinoma(s), ascitic form of LS 402 VI, transplantation studies with, 573-583, 584-589
changes in, 585-588
origin of, 580-583
significance of, in teratogenesis, 580-583, 588-589
structure of, 576-580, 584-588
teratogenic cysts in, 575-583, 584-588
in hermaphrodites, 552-572
results of treatment by surgery and irradiation for, 323-329
Teratoma(s), malignant, presacral, in adult, 889-893
autopsy findings in, 890
case report, 889-890
histological identification of, 892
incidence of, 891-892
metastasis, lymphatic and hematogenous, in, 890-892
pathological findings in, 889-890
structural resemblance to chorionepithelioma of, 891-892
results of treatment by surgery and irradiation for, 323-329
TERRY, ROBERT D.; HYAMS, VINCENT J., and DAVIDOFF, LEO M.: Combined nonmetastasizing fibrosarcoma and chromophobe tumor of the pituitary, 791-798
Testis(es), cancer, human, treatment of, 323-329
amount of dose of radiation for, 323, 325, 326, 328, 329
duration of symptoms and prognosis in, 327-328
5-year survival rates in, 324-327
with metastases, 327
without metastases, 325-326
histological classification of, 324
incidence in Norway of, 323
orchiectomy for, 325-327
and radical glandular toilet for, 323, 325, 328
and radical glandular toilet followed by X ray for, 323-328
pathological anatomy in, 323-324
endodermal sinus tumors of, comparative morphogenesis of, 1092-1105
specialized gonadal tumors of, 944-957
androblastoma as, 944-957
granulosa-theca cell tumors as, 944-957
Sertoli cell tumors as, 944-957
tumors of, conversion of teratocarcinoma LS 402 VI of mouse testis to ascitic form, 575
formation of cysts with teratogenic potentialities in, 575, 580-583
production of tumors by, 575-580
tissue components in, 575-576
development of anaplastic monocellular carcinoma with hyaline secretion, 586-589
demonstration of teratogenesis by metamorphosis of multipotential cells in, 573-583
isolation of ascites containing free-growing tumor cells in experimental studies of, 584-589
method of transplanting teratocarcinoma LS 402 VI in ascitic form in mice, 584
results of, 584-588
structure of tumors produced by, 585-588
Testosterone, effects of, on human mammary cancer in vitro, 958-961
propionate, as therapy for metastatic breast carcinoma, 738-740
Thecoma(s), extraovarian, association of hypoglycemia and nephrotic syndromes with, 1263-1269
similarity between mesotheliomas and, 1263-1269
THEISS, ERICH A., *et al.*, 944-957
THIERSCH, JOHN B., *et al.*, 10-13
THOMAS, LOUIS B., *et al.*, 108-116
THORBJARNARSON, BJORN: Carcinoma of the bile ducts, 708-713
and GLENN, FRANK: Carcinoma of the gallbladder, 1009-1015
Thymectomy, results of, for benign thymoma with coexisting erythroid aplasia, 52-55
Thymoma(s), benign, and erythroid aplasia of bone marrow, 47-57
case reports, 47-51
hematological studies in, 47-57
remission of anerythroid anemia after thymectomy for, 52-56
Thyroglossal duct, remnants of, carcinoma in, 596-600
case reports, 596-600
pertinent features in, 599
rarity of, 596, 600
Thyroid, cancer, human, postoperative treatment with suppressive thyroid medication, radioactive iodine and thyroid-stimulating hormone, 371-383
case reports, 375-382
clinical observations in, 372-375
incidence and sites of metastases in, 373
pathological classification of, 372
radioactive iodine in treatment of, 372-383
remnant thyroid tissue after, 373
resectable and nonresectable metastases, ablation of, 373-382
thyroid-stimulating hormone, followed by radioactive iodine therapy for, 376
salvage rates in, 372
sodium levothyroxine and desiccated thyroid to maintain euthyroid status in, 374-383
survival rates in, 373, 383
total body scanning and routine scintigrams of neck and chest in, 371
primary, and psammoma bodies, 656-662
definition and description of, 656, 660
incidence of, by patient age, 658
by patient sex, 657
presence in metastases of, 658-661
sites of, 657-658, 661
staining to determine, 660
structure of, 660-661
theory of origin of, 658-660
carcinoma of, 1-5, 6-9
correlation of clinical nodularity, isotopic function, and incidence of, 3
evaluation of routine scintiscanning in, 1-5, 6-9
functioning and nonfunctioning in relation to incidence of, 2-4
preoperative diagnosis of, 1-5
postoperative management of, 6-9
Thyroidectomy, "total," remnant thyroid tissue after, 371-383
scintigrams of head and neck after administration of thyroid-stimulating hormone and tracer doses of radioactive iodine, 375-383
treatment with therapeutic doses of radioactive iodine, 375-383
Thyroid-stimulating hormone (TSH), in postoperative treatment of thyroid cancer, 371-383
Tissue(s), chorionic, associated with uterine epithelial atypia, topography in, 782-790
cultures, from AK mouse skin and effect of 20-methylcholanthrene on, 663-672
from normal and cancerous human, sex chromatin studies of, 299-305
quantitative technique for measurement of in vitro cytotoxicity of antitumor agents with, 938-943
neoplastic and inflammatory, histochemical determination of leucine aminopeptidase levels in, 601-608
soft, tumors of, in children, 1123-1133
Tobacco. *See also* Cigarette(s) *and* Smoking
carcinogenesis, role of higher polycyclic hydrocarbons in, 1079-1086
amount and relative carcinogenicity of different compounds in, 1083-1085
biological findings in, 1079-1080, 1081
chemical findings in, 1080-1081
effect on Swiss mice of, 1079-1080, 1081
fluorescence spectra for, 1082, 1083
identification of hydrocarbons in, 1079
new nomenclature for hydrocarbons in, 1079
production of carcinomas in, 1080, 1081
of papillomas in, 1080, 1081
ultraviolet spectra for, 1082, 1083
role of precursors in, 1073-1078
amount of smoke condensate collected in, 1073, 1074
benzo[*a*]pyrene content in, 1075, 1077
biological findings in, 1074
chemical findings in, 1075-1076
collection of smoke condensates in, 1073
composition of whole cigarette smoke condensate in study of, 1075-1076, 1077
nicotine level in, 1075, 1077
pyrolysis products in, 1075, 1077
effect on Swiss mice of, 1074-1075
groups of cigarettes used in, 1073
hot hexane extraction in, 1074
production of carcinomas in, 1074-1075
of papillomas in, 1074-1075
Topography, methods in study of in situ cervical cancer, 263-277
of uterine epithelial atypia associated with chorionic tissue, 782-790
endometrial atypia in, 783-785
serial sectioning of uterine mucosa in, 782-785
TPN (triphosphopyridine nucleotide) diaphorase, activity of, in human tumors, 1238-1247
Trace elements, in normal and cancerous human tissues, analysis of, 544-551
method of determining, 545
Trachea, epithelium of, in smokers and nonsmokers, histopathology of, 473-484
Transhydrogenase, assay of cancerous and noncancerous human breast tissue for estradiol-17β-sensitive, 135-138
assay of human placental tissue homogenates for estradiol-sensitive, 127-134
Transplantation, in mice, of cigarette tar–induced skin carcinoma, 731-734
in rats, of Walker carcinoma, surface activity of radioactive phosphorus administered after, 962-965
TREVES, NORMAN: The treatment of cancer, especially inoperable cancer, of the male breast by ablative surgery (orchiectomy, adrenalectomy, and hypophysectomy) and hormone therapy (estrogens and corticosteroids). An analysis of 42 patients, 820-832
et al., 58-68
Trichomonas vaginalis cervicitis, relationship to cancer of uterine cervix, 1171-1193
Tridione (trimethadione), in anticonvulsant therapy, and induced lymphadenopathy, 164
Triphosphopyridine nucleotide (TPN) diaphorase, activity of, in human tumors, 1238-1247
TROTTER, BILLY B., and PALMER, WILLIAM S.: Mesenchymomatous mesothelioma. Report of a case with unusual histological features, 884-888
TSH (thyroid-stimulating hormone), and I^{131}, use of, in postoperative management of thyroid carcinoma, 6-9
in treatment of thyroid cancer, 371-383
Tuberculosis, mortality from, among women in 3 Catholic religious orders, statistical study of, 1219-1220
TUCKER, ERNEST, III; LUPTON, CHARLES H., JR., and MCMANUS, J. F. A.: A new inclusion of the visceral epithelium of the renal pelvis: the presence of these inclusions in a papillary carcinoma of the kidney and its metastases, 1052-1057
Tumor(s). *See also individual names*
adrenal cortical, differential diagnosis from pheochromocytoma, 861-875
bone, in rats, as a late effect of Sr^{90} administration, 306-322
diffuse malignant peritoneal, 884-888
direct measurement of size and number of, as index of effect of chemotherapeutic agents on growth of, 139-146
changes in patient's general condition as factor in, 140-146
metastases from, direct observations of size and number of as method for following growth of, 139-146
selection of lesions for, 140-146
of patients for, 140-146
technique used in, 139-141, 144-146
use of 2 observers for, 138-146

Tumor(s)—(*Contd.*)
endodermal, sinus, of ovary and testis, comparative morphogenesis of, 1092-1105
case reports, 1099-1100
confusion with other tumor types, 1095-1096
germinal (dysembryomatous) origin of, 1096, 1102-1103
glomerular-like structures in, 1093-1103
history of, 1092, 1095
identity of structural units in tumor and rat's placenta, 1100-1102
labyrinthine and villous modifications in extraembryonic or fetal membranes, 1096, 1102
placentation and formation of fetal membranes, 1101-1102
structure of, 1095-1099
study of so-called mesonephroma ovarii (Schiller) and extraembryonic (yolk sac-allantoic) structures of rat's placenta, 1092-1105
functioning, of parathyroid gland, 902-911
giant cell, superimposed, in Paget's disease, long term blood chemistry studies in, 1226-1232
gonadal, dysgenetic, in intersexes, 552-572
growth of small compatible implants of, in presence of admixed radiation-killed or incompatible tumor cells, 697-707
cell changes in, 698-703
types of tumors used in study of, 697-698
use of inbred strains of mice in study of, 697-698
human, histochemical study of 3 dehydrogenase systems in, 1238-1247
localization of β-glucuronidase in, 240-245
in soft tissues, in children, 1123-1133
lipoblastic, of children, 912-925
case reports, 913, 915, 921, 923
clinical features of, 918-923
location and gross appearance of, 918-923
microscopy of, 918-923
treatment and prognosis in, 921
malignant, associated with carcinoma of gallbladder, 1012, 1013
calcium studies in, 485-493, 494-498
apparatus used, 485-486
case reports, 494-496
comparative analyses of EDTA and standard methods, 488-490
determination of, in serum and urine, by simplified titrimetric procedure, 485-493, 494-498
influence of phosphate on, 491
procedure for, 487-488
reagents used, 486-487
recovery experiments in, 489
reproducibility of comparative analysis in the study of, 488-490
use in determining hypercalcemia, hypercalcuria, and effect of trials with new chemotherapeutic agents, 494-498
use of ethylenediamine tetraacetate (EDTA) in, 485-493
in Thailand, relative incidence of, 693-696
metastases from, 693
patient age and sex in, 693
nationality in, 693, 694
tumor type and anatomical sites in, 693-696
significance of changes in lactic dehydrogenase activity of body fluids in, 27-39
transplantation by suture thread and prevention of, 1029-1042
cancer cells in operative field, sources of, 1031
viability of, 1031-1032
incidence of local recurrence, local venous spread, and lymph node recurrence in carcinoma of large intestine and breast, 1030, 1032
measures used in conjunction with surgery to prevent, 1032
picric, orthophthalic, orthochlorobenzoic, and orthonitrobenzoic acids as tumoricidal agents in, 1033-1040
preparation of surgical suture material in study of, 1032-1034
use of transmissible mouse tumor in study of, 1032
mesenchymal chondroid, poorly differentiated, of bone, 1149
metastatic, to brain and skull, prognosis in, 609-613
minor salivary gland, benign and malignant, 40-46
mixed, of salivary gland type, in skin, 537-543
rectum and colon, asymptomatic, detection of, 833-839
specialized gonadal stromal, in male patients, 944-957
spindle cell, association of hypoglycemia and, 1265-1267
studies on mice using ascitic form of teratocarcinoma LS 402 VI, 573-583
testicular, isolation of ascites with free-growing tumor cells in production of, 584-589
generation studies of mice with, 584-588
malignant, at Norwegian Radium Hospital, treatment of, 323-329
metamorphosis of multipotential cells in development of, 573-583
unusual benign and malignant chondroid, of bone, 1142-1157

Ultraviolet spectra, of benzofluoranthenes, in study of carcinogenicity, 1194-1195, 1198
of higher polycyclic hydrocarbons, in study of carcinogenicity, 1082, 1083
UMIKER, WILLIAM; LAMPE, ISADORE; RAPP, ROBERT; LATOURETTE, HOWARD, and BOBLITT, DELBERT: Irradiation effects on malignant cells in smears from oral cancers. A preliminary report, 614-619
URBAN, CLIFFORD H., and MCNEER, GORDON: The relation of the morphology of gastric carcinoma to long and short term survival, 1158-1162
URBAN, JEROME A.: Clinical experience and results of excision of the internal mammary lymph node chain in primary operable breast cancer, 14-22
Urinary tract, radiographic evaluation of, after urinary diversion to an ileal bladder, 1134-1141
case reports, 1137-1141
method of taking radiographs in, 1134
postoperative complications in, 1134, 1137-1144
use of excretory urograms in, 1134-1141
of retrograde urograms in, 1134-1141
Urine, levels of calcium in, from cancer patients, using an EDTA titrimetric method, 485-493
USON, AURELIO C., *jt. au.*, 552-572
Uterus(i). *See also* Cervix
cancer of, among women in 3 Catholic religious orders, statistical study of, 1217-1218
epithelial atypias of, associated with chorionic tissue, topography in, 782-790
serial sectioning in, 782-786

Vagina, sarcoma botryoides of, 74-84
case reports, 76-82
differential diagnosis in, 82-83
"grapelike" appearance of, 74, 82-83
metastases, to abdominal cavity from, frequency of, 82
mode of extension in, 82
operative procedures and X-ray therapy for, 76, 83
pathological findings in, 82-83
salvage rates in, 76-83
survival rates in, 76-83
VANDER, JOHN B.: Optical density measurement of leukemic cells, 232-234
VAN RYMENANT, M., and ROBERT, J.: Enzymes in cancer. I. Measurement of pyruvate kinase in serum of normal individuals and patients with cancer, 1087-1091
Versene, as substrate for assay of estradiol-sensitive transhydrogenase, 130-131
Virus, Egypt 101, effects of, on development of spontaneous leukemia in AKR mice, 857-860
effects of, on leukemia L4946 in AK mice, 222-231
LCM, effect of, on development of leukemia in AKR mice, 857-860
Viscera, involvement of, in Kaposi's sarcoma, 293-297

WASSERMAN, LOUIS R., *jt. au.*, 760-766
WENTZ, W. BUDD, and REAGAN, JAMES W.: Survival in cervical cancer with respect to cell type, 384-388
jt. au., 389-395
WHITMORE, WILLET F., JR., and MACKENZIE, ALEXANDER R.: Experiences with various operative procedures for the total excision of prostatic cancer, 396-405
jt. au., 58-68
WILLIAMSON, CHARLES, *jt. au.*, 446-462
WINSHIP, THEODORE, *jt. au.*, 656-662
WITTEN, BENJAMIN, *jt. au.*, 446-462
WITTKOWER, E. D., *jt. au.*, 1200-1206
WOERNLEY, D. L., *jt. au.*, 651-655
WOLFF, JACOB, historian and biographer of cancer, Frontispiece, Jan.-Feb.
WOLINSKA, WANDA H., *jt. au.*, 1171-1193
WOODARD, HELEN QUINCY: Long term studies of the blood chemistry in Paget's disease of bone, 1226-1237
Wound(s), experimental cutaneous, in albino rats, levels of leucine aminopeptidase in, 601, 605, 607
WRIGHT, GEORGE F., *jt. au.*, 1073-1078
WRÓBLEWSKI, FELIX: The significance of alterations in lactic dehydrogenase activity of body fluids in the diagnosis of malignant tumors, 27-39
WYNDER, ERNEST L., and HOFFMANN, DIETRICH: A study of tobacco carcinogenesis. VII. The role of higher polycyclic hydrocarbons, 1079-1086
and HOFFMANN, DIETRICH: The carcinogenicity of benzofluoranthenes, 1194-1199
LEMON, FRANK R., and BROSS, IRWIN J.: Cancer and coronary artery disease among Seventh-Day Adventists, 1016-1028
WRIGHT, GEORGE F., and LAM, JORGEN: A study of tobacco carcinogenesis. VI. The role of precursors, 1073-1078

ZIMMER, THOMAS S.: Late irradiation changes. A cytological study of cervical and vaginal smears, 193-196
Zinc, levels in blood of normal individuals and cancer patients, 544-551
case reports, 545-550
ZYLBERSZAC, S., *jt. au.*, 527-536

INDEX OF SELECTED CANCER ABSTRACTS

ADIAO, AMPARO C., *jt. au.*, 842
AHERNE, W. A.: The differentiation of myelomatosis from other causes of bone marrow plasmacytosis, 199
AMANO, SHIGEYASU, *jt. au.*, 208
ANDERSSON, ERIK: Hypophysectomy in disseminated cancer of the breast, 418
AROSTEGUI, GONZALO E., *jt. au.*, 415-416
ASCHNER, BERTHA M., *jt. au.*, 842
ASHLEY, MILDRED P., *jt. au.*, 419-420
ASTON, J. N.: A case of "massive osteolysis" of the femur, 422-423
AZZOPARDI, J. G., and SMITH, O. D.: Salivary gland tumours and their mucins, 843

BACON, H. E.; DIRBAS, F.; MYERS, T. B., and DE LEON, F. PONCE: Extensive lymphadenectomy and high ligation of the inferior mesenteric artery for carcinoma of the left colon and rectum, 632
BAJARDI, F., *jt. au.*, 416
BAKALOV, J.: Polyps of the large intestine as a complication of dysentery, 632
BAKER, S. L., *jt. au.*, 422-423
BAMFORTH, J.: Cytological diagnosis of prostatic carcinoma, 840
BANE, HARRY N.; GLICKSMAN, ARVIN S., and NICKSON, JAMES J.: Common electrolyte disturbances in the radiation therapy patient, 417
BARON, D. N.; GURLING, K. J., and SMITH, E. J.: The effect of hypophysectomy in advanced carcinoma of the breast, 1060
BARRETT, A. M., *jt. au.*, 422-423
BASS, LEE W., *jt. au.*, 847
BASSET, J., *jt. au.*, 1062
BEAHRS, OLIVER H., *jt. au.*, 844-845
BELCHER, E. H.: Radioactive tracer studies of red cell survival in tumour bearing rats, 849-850
BENDER, WILLIAM T., *jt. au.*, 203
BENNETT, LESLIE R., *jt. au.*, 198-199
BERGENSTAL, DELBERT M., *jt. au.*, 630
BERGHAN, ROBERT, *jt. au.*, 207
BERGMAN, F., *jt. au.*, 417
BERRY, C. M., *jt. au.*, 1058
BERSACK, SOLOMON R.: HOWE, JOHN S., and RABSON, ALAN S.: Inflammatory pseudopolyposis of the small and large intestines with the Peutz-Jeghers syndrome in a case of diffuse histoplasmosis, 201
BEYER, FRANCIS, JR., *jt. au.*, 842-843
BILLINGS, MARTA S., *jt. au.*, 198-199
BISCA, BASIL V., *jt. au.*, 203
BJÖRKESTEN, G. AF, *jt. au.*, 628
BLACKBURN, CHARLES M., and CHILDS, DONALD S., JR.: Use of 2 alpha-methyl androstan-17 beta-ol, 3-one (2-methyl dihydrotestosterone) in the treatment of advanced cancer of the breast, 1060
BOCKUS, H. L.; KALSER, M. H.; MOUHRAN, Y.; LAUCKS, R., and BASSET, J.: Early clinical manifestations of cancer of the colon and rectum, 1062
Book reviews:
ANDERSON, V. ELVING; GOODMAN, HAROLD O., and REED, SHELDON C.: Variables Related to Human Breast Cancer, 209
ANON.: Annual Report on the Results of Treatment in Carcinoma of the Uterus. vol. 11. Statements of Results Obtained in 1951 and Previous Years. (Collated in 1957.), 209
BENEDICT, EDWARD B., and NARDI, GEORGE L.: The Esophagus; Medical and Surgical Management, 850-851
CLARK, RANDOLPH LEE, JR., and CUMLEY, RUSSELL W., Eds.: The Year Book of Cancer, 209-210
DALAND, GENEVA A.: A Color Atlas of Morphologic Hematology, with a Guide to Clinical Interpretation, revised ed., 851
FIELD, JOHN B., Ed.: Cancer; Diagnosis and Treatment, 851
HOMBURGER, FREDDY, Ed.: The Physiopathology of Cancer, 2d ed., 1068
JAFFE, HENRY L.: Tumors and Tumorous Conditions of the Bones and Joints, 210
Book reviews—(*Contd.*)
PACK, GEORGE T., and ARIEL, IRVING M., Eds.: Treatment of Cancer and Allied Diseases, 2d ed., vol. 1. Principles of Treatment, 851-852
SEGALOFF, ALBERT, Ed.: Breast Cancer; The Second Biennial Louisiana Cancer Conference, New Orleans, Jan. 22-23, 1958, 638
SEVERI, LUCIO, Ed.: Proceedings of the II International Symposium on Mammary Cancer, 424
BOS, JOHN F., *jt. au.*, 199
BOURONCLE, BERTHA A.; WISEMAN, BRUCE K., and DOAN, CHARLES A.: Leukemic reticuloendotheliosis, 205
BOYLAND, E., Ed.: Causation of cancer. [Symposium.], 629
BRANCO, FRANCISCO, and HORTA, J. DA SILVA: Notes on a rare case of essential osteolysis, 422-423
BRAUN, DANIEL C., and TRUAN, T. DAVID: An epidemiological study of lung cancer in asbestos miners, 415
BRUZELIUS, S.; CEDERQUIST, E.; LINELL, F., and BERGMAN, F.: Tumours of the parotid gland; a histological study and results of combined surgical and radiological treatment, 417
BUELL, PHILIP, *jt. au.*, 1066
BUINAUSKAS, PETER; MCDONALD, GERALD O., and COLE, WARREN H.: Role of operative stress on the resistance of the experimental animal to inoculated cancer cells, 636-637
BULLOCK, WELDON K., *jt. au.*, 632-633
BURCHENAL, JOSEPH H., *jt. au.*, 205
BURGHARDT, E., *jt. au.*, 416
BURKELL, C. C., *jt. au.*, 841-842
BURROWS, RUTH E., *jt. au.*, 1058
BUSSEY, H. J. R., *jt. au.*, 632
BUTLER, R. W.; MCCANCE, R. A., and BARRETT, A. M.: Unexplained destruction of the shaft of the femur in a child, 422-423

CAVANAGH, CHARLES R., JR.: The problem of thyroid nodule in an endemic goiter area, 417-418
CAREY, JOHN M., and GREER, ALLEN E.: Bronchogenic carcinoma complicating pulmonary tuberculosis, a report of 8 cases and a review of 140 cases since 1932, 206
CEDERQUIST, E., *jt. au.*, 417
CHAIKOV, I. M.: Gastric polyps, 631
CHAU, PAUL M., *jt. au.*, 844
CHILDS, DONALD S., JR., *jt. au.*, 1060
CLAYTON, S. G., *jt. au.*, 201
COHEN, ANNABELLE, *jt. au.*, 841
COHEN, LIONEL, and COHEN, ANNABELLE: Experimental evaluation of systemic medication (cysteamine, menadione, flavonoids and corticoids) modifying reactions to radiotherapy, 841
COLE, JACK W.; O'HARA, RICHARD S., and HOLDEN, WILLIAM D.: Observations on the relationship of benign adenomatous polyps of the colon to the natural history of colonic cancer, 420
COLE, WARREN H., *jt. au.*, 636-637, 637
COLEY, BRADLEY L., *jt. au.*, 423
COLLIER, FRED C.; ENTERLINE, HORATIO T.; KYLE, ROBERT H.; TRISTAN, THEODORE T., and GREENING, ROY: The prognostic implications of vascular invasion in primary carcinoma of the lung; a clinicopathologic correlation of 225 cases with 100% follow-up, 423
COMMISSION ON CANCER CONTROL: Symposium on applied exfoliative cytology. Brussels, Belgium, July 11-13, 1957, 416
COOK, J.: Kaposi's sarcoma treated with nitrogen mustard, 842
COURT BROWN, W. M., and DOLL, R.: Expectation of life and mortality from cancer among British radiologists, 197
CRAIG, WINCHELL MCK., *jt. au.*, 205
CRAVER, LLOYD F., *jt. au.*, 421-422
CREECH, OSCAR, JR.; KREMENTZ, E. T.; RYAN, ROBERT F., and WINBLAD, JAMES N.: Chemotherapy of cancer; regional perfusion utilizing an extracorporeal circuit, 630
CRIGLER, CECIL M., *jt. au.*, 203-204
CRILE, GEORGE, JR., *jt. au.*, 844
CUCCIA, CARLO A.; JONES, SID, and CRIGLER, CECIL M.: Clinical impressions in 100 consecutive cases of carcinoma of the urinary bladder treated by supervoltage, 203-204
CULP, D. A., *jt. au.*, 848
CUNNINGHAM, G. J.; NASSAU, E., and WALTER, J. B.: The frequency of tumour-like formations in bronchiectatic lungs, 206
CURTH, HELEN OLLENDORFF, and ASCHNER, BERTHA M.: Genetic studies on acanthosis nigricans, 842

DAHLE, THOR: Combined radiologic-surgical treatment of carcinoma of the cervix, 1065-1066
DAHLIN, DAVID C., *jt. au.*, 423, 841
DALAND, ERNEST M.: Malignant melanoma; personal experience with 170 cases, 842
DALGAARD, JØRGEN B.: Intracranial tumours and peptic ulceration; a postmortem study of 21 cases (3. ulcer and brain), 422
DARGEON, HAROLD W.; ADIAO, AMPARO C., and PACK, GEORGE T.: Hemangioma with thrombocytopenia, 842
jt. au., 421-422
DARLING, R. CLEMENT, and WELCH, CLAUDE E.: Tumors of the small intestine, 1061-1062
DELORY, G. E., *jt. au.*, 208
DEL VECCHIO, PASCO R., *jt. au.*, 416
DE SANTO, DOMINIC A.; BULLOCK, WELDON K., and MOORE, FREDERICK J.: Ovarian cytomas; a biostatistical and pathological study of 2 large simultaneous series occurring in a large general and a large private hospital, 632-633
DEVINE, KENNETH D., *jt. au.*, 845
DIAMOND, HENRY D., *jt. au.*, 421-422
DIRBAS, F., *jt. au.*, 632
DIXON, F. J., JR., *jt. au.*, 848
DOAN, CHARLES A., *jt. au.*, 205
DOCKERTY, MALCOLM B., *jt. au.*, 200-201, 205
DODGE, HENRY W., JR.; LOVE, J. GRAFTON; CRAIG, WINCHELL MCK.; DOCKERTY, MALCOLM B.; KEARNS, THOMAS P.; HOLMAN, COLIN B., and HAYLES, ALVIN B.: Gliomas of the optic nerves, 205
DOLL, R.; HILL, A. BRADFORD; GRAY, P. G., and PARR, E. A.: Lung cancer mortality and the length of cigarette ends; an international comparison, 840
jt. au., 197
DONALD, WILLIAM G., JR., *jt. au.*, 421
DUKES, C. E., and BUSSEY, H. J. R.: The spread of rectal cancer and its effect on prognosis, 632
DUNN, JOHN E., JR.: Preliminary findings of the Memphis-Shelby County uterine cancer study and their interpretation, 1066
and BUELL, PHILIP: Association of cervical cancer with circumcision of sexual partner, 1066
DYBKAER, R., and JENSEN, G.: Acid serum-phosphatase levels following massage of the prostate, 847-848

ECONOMOU, STEVEN G.; SOUTHWICK, HARRY W., and SLAUGHTER, DANELY P.: Neurofibrosarcomas of cranial nerve origin, 205-206
jt. au., 422
EDLING, NILS, *jt. au.*, 1064
EDSMYR, F., *jt. au.*, 204-205
EHRENHAFT, JOHANN L.; LAWRENCE, MONTAGUE S., and SENSENIG, DAVID M.: Pulmonary resections for metastatic lesions, 423
EKSTRÖM, T., and EDSMYR, F.: Cancer of the penis; a clinical study of 229 cases, 204-205
ELKINS, H. B., *jt. au.*, 848
ELLIS, F. HENRY, JR., *jt. au.*, 200-201
ELLIS, H., *jt. au.*, 1064
ELLISON, ROSE RUTH; KARNOFSKY, DAVID A., and BURCHENAL, JOSEPH H.:

ELLISON et al.—(*Contd.*)
Clinical evaluation of 6-chloropurine in leukemia of adults, 205
ELMAN, DANIEL S.: Familial association of nerve deafness with nodular goiter and thyroid carcinoma, 200
ENNEKER, CLAUS: Systematische Untersuchungen über das Vorkommen von Hiluszellen des Ovars in den verschiedenen Lebensaltern. [Systematic investigation of frequency of ovarian hilum cells in different age groups.], 633
Über einen Hiluszelltumor des Ovars mit oestrogener Hormonwirkung. [Ovarian hilum cell tumor with estrogenic activity.], 633
ENTERLINE, HORATIO T., *jt. au.*, 423
ERICH, JOHN B. *jt. au.*, 423, 845
ESTANIEL, REMEDIOS P., *jt. au.*, 420
ETON, B., and PARKER, R. A.: Endometrial abnormalities including carcinoma associated with ovarian Brenner tumours, 201

FARNSLEY, WESLEY G., *jt. au.*, 844
FERREIRA, H. P., and CLAYTON, S. G.: Three cases of malignant change in endometriosis, including 2 cases arising in the recto-vaginal septum, 201
FINKE, WALTER: Chronic pulmonary diseases in patients with lung cancer, 629
FISHER, EDWIN R., and BEYER, FRANCIS, JR.: Differentiation of neoplastic lesions characterized by large vacuolated intraepidermal (pagetoid) cells, 842-843
FISHER, H. RUSSELL, and MILLER, ALDEN H.: Carcinoma in situ of the larynx; a 10 year study of its histopathological classification, prognosis and treatment, 843-844
FISZER, B., *jt. au.*, 628-629
FLETCHER, GILBERT H.; MACCOMB, WILLIAM S.; CHAU, PAUL M., and FARNSLEY, WESLEY G.: Comparison of medium voltage and supervoltage roentgen therapy in the treatment of oropharynx cancers, 844
FLOCKS, R. H.; CULP, D. A., and ELKINS, H. B.: Present status of radioactive gold therapy in management of prostatic cancer, 848
FLOWERS, CHARLES E., JR.; ROSS, ROBERT A., and PRITCHETT, NANCY L.: Delay by physician and patient in the diagnosis and treatment of pelvic cancer, 1064-1065
FOCHT, ELIZABETH F., *jt. au.*, 417
FORTNER, JOSEPH G.: An experimental prototype of human colon tumors, 637
FRANK, IRWIN N., and SCOTT, W. W.: The cytodiagnosis of prostatic carcinoma; a follow-up study, 199
FRANK, PAVAO, *jt. au.*, 850
FRIEDELL, GILBERT H.; HERTIG, ARTHUR T., and YOUNGE, PAUL A: The problem of early stromal invasion in carcinoma in situ of the uterine cervix, 634
FRIEDMAN, A. J.: Primary lymphosarcoma of the stomach; a clinical study of 75 cases, 1061
FRIESEN, E., *jt. au.*, 208
FUKUSHIMA, KOZO: Tumors of the diencephalon and precocious puberty, 422
FULLER, LILLIAN M., *jt. au.*, 1064
FUMAROLA, D., *jt. au.*, 849

GARDNER, W. U.: Experimental induction of uterine cervical and vaginal cancer in mice, 1067
GASTIABURÚ, P. JULIO: Importancia pronostica de la investigacion del contenido celular de la medula osea en carcinoma cervico-uterino. [Prognostic importance of the study of the cellular content of bone marrow in carcinoma of the uterine cervix.], 634
GEE, VERNON R., *jt. au.*, 845
GELLHORN, ALFRED: The cocarcinogenic activity of cigarette tobacco tar, 198
GELZER, J., and SCHEIDEGGER: Samenblasenkarzinom (14 Jahre nach Kontrastdarstellung einer Harnfistel mit Thorotrast). [Carcinoma of seminal vesicle (14 years after contrast radiography of urethra with thorotrast).], 848
GERHARDT, PAUL R., *jt. au.*, 1058
GERNER-SMIDT, M.: Vesiculography as a diagnostic aid in cancer and hypertrophy of the prostate, 416
GISLASON, G. JOHN, *jt. au.*, 204
GISSELSSON, LENNART; LINDGREN, MARTIN, and STENRAM, UNNE: Sarcomatous transformation of a juvenile nasopharyngeal angiofibroma, 418
GLENCHUR, HARRY; ZINNEMAN, HORACE H., and HALL, WENDELL H.: A review of 51 cases of multiple myeloma; emphasis on pneumonia and other infections as complications, 848
GLICKSMAN, ARVIN S., *jt. au.*, 417
GODER, GERHARD: Primäres metastasierendes Chorionepitheliom des Magens bei einer senilen Nullipara. [Primary metastasizing chorioepithelioma of the stomach in a senile nullipara.], 631
GOLDGRABER, MOSHE B.; HUMPHREYS, ELEANOR M.; KIRSNER, JOSEPH B., and PALMER, WALTER L.: Carcinoma and ulcerative colitis; a clinical-pathologic study; III, survivors, 1062-1063
GOOD, ROBERT A., *jt. au.*, 421
GRACE, JAMES T., JR., and KONDO, TATSUHEI: Investigations of host resistance in cancer patients, 414
GRAY, MARY JANE; GUSBERG, SAUL B., and GUTTMANN, RUTH: Pelvic lymph node dissection following radiotherapy, 202-203
GRAY, P. G., *jt. au.*, 840
GREENFIELD, ROBERT E.; STERLING, WILLIAM R., and PRICE, VINCENT E.: Studies on the anemia of tumor-bearing animals; II, the mechanism of erythrocyte destruction, 628
GREENING, ROY, *jt. au.*, 423
GREER, ALLEN E., *jt. au.*, 206
GRIMSTVEDT, MAGNE, *jt. au.*, 1059-1060
GRINNELL, ROBERT S., and LANE, NATHAN: Benign and malignant adenomatous polyps and papillary adenomas of the colon and rectum; an analysis of 1,856 tumors in 1,335 patients, 1063-1064
GROSS, LUDWIK: Attempt to recover filterable agent from X-ray-induced leukemia, 207
GURLING, K. J., *jt. au.*, 1060
GUSBERG, SAUL B., *jt. au.*, 202-203, 1065
GUTTMANN, RUTH, *jt. au.*, 202-203
GYLLING, TERTTU: Primary cancer of the vulva, 634-635

HAENSZEL, WILLIAM; SHIMKIN, MICHAEL B., and MANTEL, NATHAN: A retrospective study of lung cancer in women, 629-630
HALL, WENDELL H., *jt. au.*, 848
HAMMOND, E. CUYLER: Lung cancer death rates in England and Wales compared with those in the U.S.A., 197-198
HANDY, VINCENT H., and GERHARDT, PAUL R.: Ten years of progress in early cancer detection, 1058
HANSON, A., *jt. au.*, 634
HAWK, WILLIAM A., *jt. au.*, 844
HAYLES, ALVIN B., *jt. au.*, 205
HAZARD, JOHN B.; HAWK, WILLIAM A., and CRILE, GEORGE, JR.: Medullary (solid) carcinoma of the thyroid—a clinicopathologic entity, 844
HENDRICKS, N. V.; BERRY C. M.; LIONE, J. G., and THORPE, J. J.: Cancer of the scrotum in wax pressmen; I, epidemiology, 1058
HENSCHKE, ULRICH K.: Interstitial implantation in the treatment of primary bronchogenic carcinoma, 424
HERBUT, PETER A., and KRAEMER, WILLIAM H.: The properdin system in transplantable cancer (Gardner lymphosarcoma 6CsHED), 207-208
HERMAN, GRACE G.; HUGHES, HELENA E., and GUSBERG, SAUL B.: The endocrine basis for the sensitization response, 1065
HERTIG, ARTHUR T., *jt. au.*, 634, 1067
HERTZ, ROY; BERGENSTAL, DELBERT M.; LIPSETT, MORTIMER B.; PRICE, EDWARD B., and HILBISH, THEODORE F.: Chemotherapy of choriocarcinoma and related trophoblastic tumors in women, 630
HEWITT, DAVID, *jt. au.*, 207
HIISI-BRUMMER, L., *jt. au.*, 628
HILBISH, THEODORE F., *jt. au.*, 630
HILL, A. BRADFORD, *jt. au.*, 840
HJORT, G. H., *jt. au.*, 1060
HNATIUK, L., *jt. au.*, 208
HOERNER, M. TISCHER: Carcinoma of the colon and rectum in persons under 20 years of age, 206-207
HOHLBEIN, R.: Zur Klinik und Therapie des Mikrokarzinoms am Collum uteri. [Microcarcinoma of cervix uteri, clinical findings and therapy.], 1066-1067
HOLDEN, WILLIAM D., *jt. au.*, 420
HOLLER, ARTHUR I., *jt. au.*, 418-419
HOLMAN, COLIN B., *jt. au.*, 205
HORTA, J. DA SILVA, *jt. au.*, 422-423
HORTLING, H.; MALMIO, G.; BJÖRKSTEN, G. AF, and HIISI-BRUMMER, L.: Leuko-erythroblastic anaemia in breast cancer treated by hypophysectomy, 628
HOWE, JOHN S., *jt au.*, 201
HUEPER, W. C.: Experimental studies in metal cancerigenesis; X, cancerigenic effects of chromite ore roast deposited in muscle tissue and pleural cavity of rats, 630
jt. au., 630
HUGHES, HELENA E., *jt. au.*, 1065
HUGHESDON, P. E.: Thecal and allied reactions in epithelial ovarian tumors, 633
HUMPHREYS, ELEANOR M., *jt. au.*, 1062-1063

ICHIKAWA, YASUO, and AMANO, SHIGEYASU: A new type of virus found in a spontaneous mammary tumor of SL mice and its proliferating modus observed in ultra-thin sections under the electron microscope, 208
IMBRIGLIA, JOSEPH E., *jt. au.*, 204
INADA, KIYOSHI, and NAKANO, AKINORI: Structure and genesis of the mediastinal teratoma, 200
ISAACS, H.; MEDALIE, M., and POLITZER, W. M.: Noradrenaline-secreting neuroblastomata, 846-847
ISRAELS, L. G.; DELORY, G. E.; HNATIUK, L., and FRIESEN E.: Studies on the etiology of the elevated serum isomerase in chronic myelocytic leukemia, 208
IVERSEN, H-G., and HJORT, G. H.: The influence of corticoid steroids on the frequency of spleen metastases in patients with breast cancer, 1060
IWATA, SENNAN, and COLEY, BRADLEY L.: Report of 6 cases of chondromyxoid fibroma of bone, 423

JACKMAN, RAYMOND J., *jt. au.*, 201
JENSEN, G., *jt. au.*, 847-848
JENSEN, KAJ GOTLIEB, and SCHIØDT, TORBEN: Growth conditions of hamartoma of the lung; a study based on 22 cases operated on after radiographic observation for from 1 to 18 years, 424
JOLY, DANIEL, and MCNEER, GORDON: The clinical significance of small polypoid tumors of the stomach, 1061
JONES, G. BLUNDELL; MIDGLEY, R. L., and SMITH, G. STEWART: Massive osteolysis—disappearing bones, 422-423
JONES, MALCOLM D., *jt. au.*, 845-846
JONES, SID, *jt. au.*, 203-204
JOSLIN, ELLIOTT P.; LOMBARD, HERBERT L.; BURROWS, RUTH E., and MANNING, MIRIAM D.: Diabetes and cancer, 1058
JUDE, JAMES R.; ZIMMERMAN, JACK MCK., and WARD, GRANT E.: Results of surgery for thyroid cancer, 844

KALSER, M. H., *jt. au.*, 1062
KARNOFSKY, DAVID A., *jt. au.*, 205
KARPUKHIN, V. T.: The history of the cytological investigations of exudates and needle biopsy material, 840-841
KEARNS, THOMAS P., *jt. au.*, 205
KELLY, WILLIAM D.; GOOD, ROBERT A., and VARCO, RICHARD L.: Anergy and skin homograft survival in Hodgkin's disease, 421
KETTUNEN, KALEVI: Gastric polyps, 631
KILHAM, L., *jt. au.*, 850
KIMMELSTIEL, PAUL; BOS, JOHN F., and NOLEN, CONNAREE: Community survey for uterine cancer, 199
KIRSCHSTEIN, R. L.; RABSON, A. S., and KILHAM, L.: Pulmonary lesions produced by fibroma viruses in squirrels and rabbits, 850

KIRSNER, JOSEPH B., *jt. au.*, 1062-1063
KNISELY, WILLIAM H., and MAHALEY, M. S., JR.: Relationship between size and distribution of "spontaneous" metastases and 3 sizes of intravenously injected particles of VX2 carcinoma, 850
KOLER, R. D.; SEAMAN, A. J.; OSGOOD, E. E., and VANBELLINGHEN, P.: Myeloproliferative diseases; diagnostic value of the leukocyte alkaline phosphatase test, 635
KONDO, TATSUHEI, *jt. au.*, 414
KÖRBLER, JURAJ; FRANK, PAVAO, and TURNER, VIKTOR: Abhängigkeit der kanzerogenen Wirkung der Tabakdestillate vom Einwirkungsort. [Dependency of the carcinogenic effect of tobacco sediments on the area of application.], 850
KRAEMER, WILLIAM H., *jt. au.*, 207-208
KRAGH, LYLE V.; DAHLIN, DAVID C., and ERICH, JOHN B.: Osteogenic sarcoma of the jaws and facial bones, 423
KREMENTZ, E. T., *jt. au.*, 630
KRIEGER, JAMES S., and MCCORMACK, LAWRENCE J.: The indications for conservative therapy for intraepithelial carcinoma of the uterine cervix, 203
KURATSUNE, MASANORI, and HUEPER, W. C.: Polycyclic aromatic hydrocarbons in coffee soots, 630
KYLE, ROBERT H., *jt. au.*, 423

LAGERCRANTZ, RUTGER, *jt. au.*, 1064
LAMSON, BALDWIN G.; BILLINGS, MARTA S.; MEEK, RAY A., and BENNETT, LESLIE R.: Late effects of total-body roentgen irradiation; III, early appearance of neoplasms and life-shortening in female Wistar rats surviving 1000 r hypoxic total-body irradiation, 198-199
LANE, NATHAN, *jt. au.*, 1063-1064
LATTIMER, JOHN K.; MELICOW, MEYER M., and USON, AURELIO C.: Wilms tumor; report of 71 cases, 847
LAUCKS, R., *jt. au.*, 1062
LAURELL, ANNA-BRITA: Comparison of two serological assays of properdin in normal sera and sera from patients with rheumatoid arthritis and cancer, 849
LAWRENCE, JOHN H., and DONALD, WILLIAM G., JR.: Giant follicular lymphoblastoma; its treatment with radioisotopes, 421
LAWRENCE, MONTAGUE S., *jt. au.*, 423
LAWRENCE, WALTER J., *jt. au.*, 419-420
LEHMANN, C. FERD, *jt. au.*, 843
DE LEON, F. PONCE, *jt. au.*, 632
LEWIS, MALCOLM R., and COLE, WARREN H.: Experimental increase of lung metastases after operative trauma (amputation of limb with tumor), 637
LILIENFELD, ABRAHAM M.: Emotional and other selected characteristics of cigarette smokers and nonsmokers as related to epidemiological studies of lung cancer and other diseases, 1058-1059
LIMBURG, HANS: Comparison between cytology and colposcopy in the diagnosis of early cervical carcinoma, 416
LINDGREN, MARTIN, *jt. au.*, 418
LINELL, F., *jt. au.*, 417
LIONE, J. G., *jt. au.*, 1058
LIPSETT, MORTIMER B., *jt. au.*, 630
LLAMBES, JUAN L., *jt. au.*, 415-416
LOCHRIDGE, EDWIN P., and JACKMAN, RAYMOND J.: Evaluation of conservative management of certain polypoid lesions of the lower part of the large intestine, 201
LOMBARD, HERBERT L., *jt. au.*, 1058
LOTT, J. S., and SMITH, IVAN H.: Cobalt-60 beam therapy in carcinoma of the esophagus, 631
LOVE, J. GRAFTON, *jt. au.*, 205
DE LUSTIG, E. S., and FISZER, B.: Acción teratógena de la fracción globulina del plasma humano canceroso sobre embriones de pollo y cultivo de tejido. [Teratogenic effect of the globulin fraction of cancerous human plasma on the chick embryo and tissue culture.], 628-629
LYNCH, FRANCIS W.; LEHMANN, C. FERD, and PIPKIN, J. LEWIS: A contrast of cutaneous cancer as observed in Texas and in Minnesota, 843

MACCOMB, WILLIAM S., *jt. au.*, 844
MACKIE, BRUCE S., and MCGOVERN, VINCENT J.: The mechanism of solar carcinogenesis; a study of the role of collagen degeneration of the dermis in the production of skin cancer, 199
MAHALEY, M. S., JR., *jt. au.*, 850
MALMGREN, H., *jt. au.*, 208
MALMGREN, RICHARD A.; PRUITT, JOHN C.; DEL VECCHIO, PASCO R., and POTTER, JOHN F.: A method for the cytologic detection of tumor cells in whole blood, 416
MALMIO, G., *jt. au.*, 628
MANNING, MIRIAM D., *jt. au.*, 1058
MANTEL, NATHAN, *jt. au.*, 629-630
MANUILA, ALEXANDER: Blood groups and disease—hard facts and delusions, 414
MARCIAL, VICTOR A.: Carcinoma of the base of the tongue, 844
MARSDEN, A. T. H.: The geographical pathology of cancer in Malaya, 198
MCCANCE, R. A., *jt. au.*, 422-423
MCCLURE, JAMES H., and MENGERT, WILLIAM F.: Experiences with intra-abdominal nitrogen mustard; a report on 11 women with pelvic malignancy, 1065
MCCONAHEY, WILLIAM M., *jt. au.*, 844-845
MCCORMACK, LAWRENCE J., *jt. au.*, 203
MCDONALD, GERALD O., *jt. au.*, 636-637
MCGOVERN, VINCENT J., *jt. au.*, 199
MCKAY, DONALD G.; TERJANIAN, BEDROS; POSCHYACHINDA, DASNI; YOUNGE, PAUL A., and HERTIG, ARTHUR T.: Clinical and pathologic significance of anaplasia (atypical hyperplasia) of the cervix uteri, 1067
MCNEER, GORDON; LAWRENCE, WALTER J.; ASHLEY, MILDRED P., and PACK, GEORGE T.: End results in the treatment of gastric cancer, 419-420
jt. au., 1061
MEDALIE, M., *jt. au.*, 846-847
MEEK, RAY A., *jt. au.*, 198-199
MÉHES, G., *jt. au.*, 850
MEIER, DONALD W.; WOOLNER, LEWIS B.; BEAHRS, OLIVER H., and MCCONAHEY, WILLIAM M.: Parenchymal findings in thyroidal carcinoma; pathologic study of 256 cases, 844-845
MELICOW, MEYER M., *jt. au.*, 847
MENGERT, WILLIAM F., *jt. au.*, 1065
MERRIAM, GEORGE R., JR., and FOCHT, ELIZABETH F.: Radiation dose to the lens in treatment of tumors of the eye and adjacent structures; possibilities of cataract formation, 417
MERRILL, JAMES A., and BENDER, WILLIAM T.: Primary carcinoma of the vagina, 203
MESEL, A. L.: Lymphosarcoma of the small intestine in infancy and childhood, 1062
MIDGLEY, R. L., *jt. au.*, 422-423
MILLER, ALDEN H., *jt. au.*, 843-844
MILLER, THEODORE R., and FULLER, LILLIAN M.: Radiation therapy of carcinoma of the pancreas; report on 91 cases, 1064
MILNER, S. M., and BAKER, S. L.: Disappearing bones, 422-423
MODICA, F., and FUMAROLA, D.: Sui rapporti tra zymosan, properdina e tumori. Nota 2ª—Comportamento del tasso properdinico in ratti portatori di sarcoma da 3:4 benzopirene. [Report on zymosan, properdin and tumors; II, properdin levels in rats bearing 3,4-benzpyrene sarcoma.], 849
MONTGOMERY, HAMILTON, and WINKELMANN, R. K.: Smooth-muscle tumor of the skin, 843
MOORE, FREDERICK J., *jt. au.*, 632-633
MORETTI, I.: La cromatina sessuale nei tumori ovarici. [Sex chromatin in ovarian tumors.], 1065
MORRISON, ASHTON B., *jt. au.*, 199
MORRISON, LEWIS F., *jt. au.*, 845-846
MOUHRAN, Y., *jt. au.*, 1062
MUSSEY, ELIZABETH, and SOULE, EDWARD H.: Carcinoma in situ of the cervix; a clinical review of 842 cases, 1067
MYERS, T. B., *jt. au.*, 632

NADGORNAYA, N. I., and VINOGRADSKAYA, M. A.: Electron microscope studies of leukocyte extracts from patients with leukemia, 635-636

NAKANO, AKINORI, *jt. au.*, 200
NASH, W., *jt. au.*, 416
NASSAU, E., *jt. au.*, 206
NAVARRETE, ANTONIO, *jt. au.*, 415-416
NAVRATIL, E.; BURGHARDT, E.; BAJARDI, F., and NASH, W.: Simultaneous colposcopy and cytology used in screening for carcinoma of the cervix, 416
NICKSON, JAMES J., *jt. au.*, 417
NOLEN, CONNAREE, *jt. au.*, 199
NOVAK, E. R., and WOODRUFF, J. D.: Mesonephroma of the ovary; 35 cases from the Ovarian Tumor Registry of the American Gynecological Society, 1065

OBER, WILLIAM B., and TROVELL, HAROLD M. M.: Mesenchymal sarcomas of the uterus, 1065
ÖHRLING, HANS, *jt. au.*, 1064
O'HARA, RICHARD S., *jt. au.*, 420
OSGOOD, E. E., *jt. au.*, 635

PACK, GEORGE T., *jt. au.*, 419-420, 842
PALMER, WALTER L., *jt. au.*, 1062-1063
PANG, SHU-CHAO (LILLIAN S. C. PANG): Bony and cartilaginous tumours of the urinary bladder, 847
PANKAMAA, PAAVO: Pseudomyxoma peritonei, 633-634
PARKER, R. A., *jt. au.*, 201
PARR, E. A., *jt. au.*, 840
PAWLIAS, KENNETH T.; DOCKERTY, MALCOLM B., and ELLIS, F. HENRY, JR.: Late local recurrent carcinoma of the breast, 200-201
PEDOWITZ, PAUL, *jt. au.*, 202
PEPLER, W. J.: The histochemistry of giant-cell tumours (osteoclastoma and giant-cell epulis), 848-849
PERNOW, B., *jt. au.*, 634
PERZIK, SAMUEL L.: Diagnosis and management of parotid tumors, 200
PETTERMAN, GEORGE H., *jt. au.*, 847
PIERCE, G. B.; DIXON, F. J., JR., and VERNEY, E.: Endocrine function of a heterotransplantable human embryonal carcinoma, 848
PIPKIN, J. LEWIS, *jt. au.*, 843
PLETICKA, SYLVIA, *jt. au.*, 416-417
POLITZER, W. M., *jt. au.*, 846-847
POSCHYACHINDA, DASNI, *jt. au.*, 1067
POTTER, JOHN F., *jt. au.*, 416
POWELL, RALPH WALDO, *jt. au.*, 1060-1061
PRAZDNIKOVA, G. E.: New developments in oncology, 414-415
PRICE, EDWARD B., *jt. au.*, 630
PRICE, VINCENT E., *jt. au.*, 628
PRITCHETT, NANCY L., *jt. au.*, 1064-1065
PRUITT, JOHN C., *jt. au.*, 416
PUGH, R. C. B.: Phaeochromocytoma of the bladder, 847
PUTNEY, F. JOHNSON: Preventive dissection of the neck in cancer of the larynx, 418

RABSON, A. S., *jt. au.*, 850
RABSON, ALAN S., *jt. au.*, 201
RASKIN, HOWARD F.; WENGER, JULIUS; SKLAR, MANUEL; PLETICKA, SYLVIA, and YAREMA, WILLARD: The diagnosis of cancer of the pancreas, biliary tract, and duodenum by combined cytologic and secretory methods; I, exfoliative cytology and a description of a rapid method of duodenal intubation, 416-417
RICE, MARY E., *jt. au.*, 637
ROBBINS, LAURENCE L., *jt. au.*, 206
ROSENBERG, MAX F., and UHLMANN, ERICH M.: Prophylactic castration in carcinoma of the breast, 1060
ROSENBERG, SAUL A.; DIAMOND, HENRY D.; CRAVER, LLOYD F., and DARGEON, HAROLD W.: Lymphosarcoma in childhood, 421-422
ROSENQVIST, HUGO; ÖHRLING, HANS; LAGERCRANTZ, RUTGER, and EDLING, NILS: Ulcerative colitis and carcinoma coli, 1064
ROSS, ROBERT A., *jt. au.*, 1064-1065
ROTHBERG, HARVEY, *jt. au.*, 636
ROY, A. D., and ELLIS, H.: Potassium-secreting tumors of the large intestine, 1064
RYAN, ROBERT F., *jt. au.*, 630
RYGARD, JORGEN: Induced leukemogenesis in mice, depressed blood clearance as a predisposing factor in induced leukemia, 849

SANDERUD, KNUT: Squamous metaplasia of the respiratory tract epithelium; an autopsy study of 214 cases; II, relation to tobacco smoking, occupation and residence, 1059

SÁNDOR, T., *jt. au.*, 850

SAVINYKH, A. G.: Experience in operative treatment of carcinomas of the cardia and lower oesophagus, 631

SAVITSKII, A. I.: The basis of the organization of the anti-cancer campaign in the USSR, and its achievements and future aims, 415

SCANLON, PAUL W.: The effect of mitotic suppression and recovery after irradiation on time-dose relationships and the application of this effect to clinical radiation therapy, 841

DEVINE, KENNETH D., and WOOLNER, LEWIS B.: Malignant lesions of the nasopharynx, 845

GEE, VERNON R.; ERICH, JOHN B.; WILLIAMS, HENRY L., and WOOLNER, LEWIS B.: Carcinoma of the palatine tonsil, 845

SCHAJOWICZ, FRITZ: Ewing's sarcoma and reticulum-cell sarcoma of bone; with special reference to the histochemical demonstration of glycogen as an aid to differential diagnosis, 849

SCHEIDEGGER, *jt. au.*, 848

SCHIØDT, TORBEN, *jt. au.*, 424

SCHLICKE, CARL P., and BERGHAN, ROBERT: Management of goiter in children, 207

SCOTT, W. W., *jt. au.*, 199

SEAMAN, A. J., *jt. au.*, 635

SENSENIG, DAVID M., *jt. au.*, 423

SHAW, JOHN L.; GISLASON, G. JOHN, and IMBRIGLIA, JOSEPH E.: Transition of cystitis glandularis to primary adenocarcinoma of the bladder, 204

SHEEHY, THOMAS W., *jt. au.*, 636

SHELINE, GLENN E.; JONES, MALCOLM D., and MORRISON, LEWIS F.: Radiation therapy for cancer of the tonsil, 845-846

and STONE, ROBERT S.: Carcinoma of the larynx, 846

SHELTON, EMMA, and RICE, MARY E.: Studies on mouse lymphomas; II, behavior of 3 lymphomas in diffusion chambers in relation to their invasive capacity in the host, 637

SHERMAN, FRANK E.; BASS, LEE W., and PETTERMAN, GEORGE H.: Congenital metastasizing adrenal cortical carcinoma associated with cytomegaly of the fetal adrenal cortex, 847

SHIMKIN, MICHAEL B., *jt. au.*, 629-630

SHIROTA, GORO: On the possible relationship of the predilection site for the glial abnormalities in the malformed fetal mouse brain to that for the human infant's gliomas, 637

SILVÉN, B., and MALMGREN, H.: The histological distribution of proteinase and peptidase activity in solid tumor transplants; a histochemical study on the enzymatic characteristics of the different tumor cell types, 208

SKLAR, MANUEL, *jt. au.*, 416-417

SLAUGHTER, DANELY P.; ECONOMOU, STEVEN G., and SOUTHWICK, HARRY W.: Surgical management of Hodgkin's disease, 422

jt. au., 205-206

SMITH, E. J., *jt. au.*, 1060

SMITH, G. STEWART, *jt. au.*, 422-423

SMITH, IVAN H., *jt. au.*, 631

SMITH, O. D., *jt. au.*, 843

SMITH, ROBERT B. W.; SHEEHY, THOMAS W., and ROTHBERG, HARVEY: Hodgkin's disease and pregnancy; case reports and a discussion of the treatment of Hodgkin's disease and leukemia during pregnancy, 636

SMITH, WILLIAM G.: Multiple polyposis, Gardner's syndrome and desmoid tumors, 1064

SNIFFEN, RONALD C.; SOUTTER, LAMAR, and ROBBINS, LAURENCE L.: Mucoepidermoid tumors of the bronchus arising from surface epithelium, 206

SÖDERSTRÖM, N., *jt. au.*, 634

SOULE, EDWARD H., and DAHLIN, DAVID C.: Cytodetection of preclinical carcinoma of cervix; 10 years' experience with initial screening and repeat cervical smears, 841

jt. au., 1067

SOUTHWICK, HARRY W., *jt. au.*, 205-206, 422

SOUTTER, LAMAR, *jt. au.*, 206

STEIN, HAROLD L., and WEBSTER, GEORGE V.: Basal cell carcinoma in children, 207

STENRAM, UNNE, *jt. au.*, 418

STERLING, WILLIAM R., *jt. au.*, 628

STEWART, ALICE; WEBB, JOSEFINE, and HEWITT, DAVID: A survey of childhood malignancies, 207

STOCKS, PERCY: Cancer and bronchitis mortality in relation to atmospheric deposit and smoke, 1059

STOECKLE, JOHN D., *jt. au.*, 417

STONE, ROBERT S., *jt. au.*, 846

TARAKANOV, E. I.: Hormonally-active tumours of the adrenal cortex, 420-421

TAYLOR, CLAUD W.: Mesodermal mixed tumours of the female genital tract, 201-202

TAYLOR, GRANTLEY W., *jt. au.*, 846

TERJANIAN, BEDROS, *jt. au.*, 1067

THORPE, J. J., *jt. au.*, 1058

THORSJN, AKE H.: Studies on carcinoid disease, 631-632

HANSON, A.; PERNOW, B.; SÖDERSTRÖM, N.; WALDENSTRÖM, J.; WINBLAD, S., and WULFF, H. B.: Carcinoid tumour within an ovarian teratoma in a patient with the carcinoid syndrome (carcinoidosis); clinical picture and metabolic studies before and after total resection of tumour, 634

TIMONEN, S.: Zur Diagnostik des Uteruscarcinoma durch Untersuchungen am Vaginal-Smear nach Papanicolaou. [Diagnosis of uterine carcinoma by examinations of vaginal smear, Papanicolaou method.], 841

TREVES, NORMAN, and HOLLEB, ARTHUR I.: A report of 549 cases of breast cancer in women 35 years of age or younger, 418-419

TRIEGER, NORMAN, and STOECKLE, JOHN D.: Stomatitis and pancytopenia associated with thymoma; report of a case, 417

TAYLOR, GRANTLEY W., and WEISBERGER, DAVID: The significance of liver dysfunction in mouth cancer, 846

TRISTAN, THEODORE T., *jt. au.*, 423

TROVELL, HAROLD M. M., *jt. au.*, 1065

TRUAN, T. DAVID, *jt. au.*, 415

TRÜBESTEIN, HERMANN: Die Abhängigkeit des radiologischen Erfolges von der Dosis, der Tumorgrösse und dem Tumorsitz, untersucht am Larynx- und am Hypopharynxkarzinom unter Röntgen-Tiefentherapie-Bedingungen. [Influence of dose, tumor size and site on effectiveness of irradiation; study of deep irradiation therapy on laryngeal and hypopharyngeal carcinomas.], 846

TURNER, VIKTOR, *jt. au.*, 850

UHLMANN, ERICH M., *jt. au.*, 1060

ULLERY, JOHN C., and BISCA, BASIL V.: Carcinoma of the cervical stump, 203

ULTMANN, JOHN E.: The role of the spleen in the hemolytic anemia of cancer patients, 629

USON, AURELIO C., *jt. au.*, 847

VÁCZY, L.; SÁNDOR, T., and MÉHES, G.: Die Wirkung der Trächtigkeit auf Entwicklung und Wachstum des Guerin-Krebses bei Ratten und auf deren Lebensdauer. [Effect of pregnancy upon development and growth of Guerin carcinoma in rats and upon duration of life.], 850

VANBELLINGHEN, P., *jt. au.*, 635

VANDER, JOHN B.: The association of diabetes mellitus and carcinoma of the endometrium, 1059

VARCO, RICHARD L., *jt. au.*, 421

VERHAAK, REINOLDUS L. O. M.: Nierafwijkingen na pyelographie met thorotrast. [Pathological changes in the kidney following thorotrast pyelography.], 630

VERNER, JOHN V., and MORRISON, ASHTON B.: Islet cell tumor and a syndrome of refractory watery diarrhea and hypokalemia, 199

VERNEY, E., *jt. au.*, 848

VINOGRADSKAYA, M. A., *jt. au.*, 635-636

VOGLER, WILLIAM R., and POWELL, RALPH WALDO: A clinical evaluation of thermography and heptyl aldehyde in breast cancer detection, 1060-1061

WAALER, ERIK, and GRIMSTVEDT, MAGNE: The clinical diagnoses of the causes of death and their reliability, 1059-1060

WACHTLER, F.: Röntgentherapie der Tonsillenmalignome. [X-ray therapy of tonsil cancer.], 846

WALDENSTRÖM, J., *jt. au.*, 634

WALTER, J. B., *jt. au.*, 206

WARD, GRANT E., *jt. au.*, 844

WATSON, T. A., and BURKELL, C. C.: Five-year results of betatron X-ray therapy, 841-842

WATTENBERG, LEE W.: Histochemical study of aminopeptidases in metaplasia and carcinoma of the stomach, 1061

WEBB, JOSEFINE, *jt. au.*, 207

WEBSTER, GEORGE V., *jt. au.*, 207

WEISBERGER, DAVID, *jt. au.*, 846

WELCH, CLAUDE E., and WILKINS, EARLE W., JR.: Carcinoma of the stomach, 420

jt. au., 1061-1062

WENGER, JULIUS, *jt. au.*, 416-417

WEST, MICHAEL, and ZIMMERMAN, HYMAN J.: Serum enzymes in disease; I, lactic dehydrogenase and glutamic oxalacetic transaminase in carcinoma, 199-200

WILKINS, EARLE W., JR., *jt. au.*, 420

WILLIAMS, HENRY L., *jt. au.*, 845

WINBLAD, JAMES N., *jt. au.*, 630

WINBLAD, S., *jt. au.*, 634

WINKELMANN, R. K., *jt. au.*, 843

WISEMAN, BRUCE K., *jt. au.*, 205

WOLFE, SAMUEL A., and PEDOWITZ, PAUL: Carcinosarcoma of the uterus; report of 16 cases, 202

WOOD, SUMMER, JR.: Pathogenesis of metastasis formation observed in vivo in the rabbit ear chamber, 637-638

WOOLNER, LEWIS B., *jt. au.*, 844-845, 845, 845

WOODRUFF, J. D., *jt. au.*, 1065

WÜRTERLE, A.: Übersicht über die Behandlungsergebnisse beim Carcinoma colli uteri in den Jahren 1937 bis 1951 unter besonderer Berücksichtigung der Berichtsjahre 1949 bis 1951. [Results of treatment of carcinoma of the cervix during 1937–1951 with special emphasis on the period 1949–1951, a review.], 1067

WULFF, H. B., *jt. au.*, 634

WYNDER, ERNEST L.; NAVARRETE, ANTONIO; AROSTEGUI, GONZALO E., and LLAMBES, JUAN L.: Study of environmental factors in cancer of the respiratory tract in Cuba, 415-416

YAP, PACIFICO C., and ESTANIEL, REMEDIOS P.: The incidence of malignancy in acute perforated gastroduodenal ulcers, 420

YAREMA, WILLARD, *jt. au.*, 416-417

YOUNGE, PAUL A., *jt. au.*, 634, 1067

ZIMMERMAN, DONALD C., and DAHLIN, DAVID C.: Myxomatous tumors of the jaws, 423

ZIMMERMAN, HYMAN J., *jt. au.*, 199-200

ZIMMERMAN, JACK MCK., *jt. au.*, 844

ZINNEMAN, HORACE H., *jt. au.*, 848